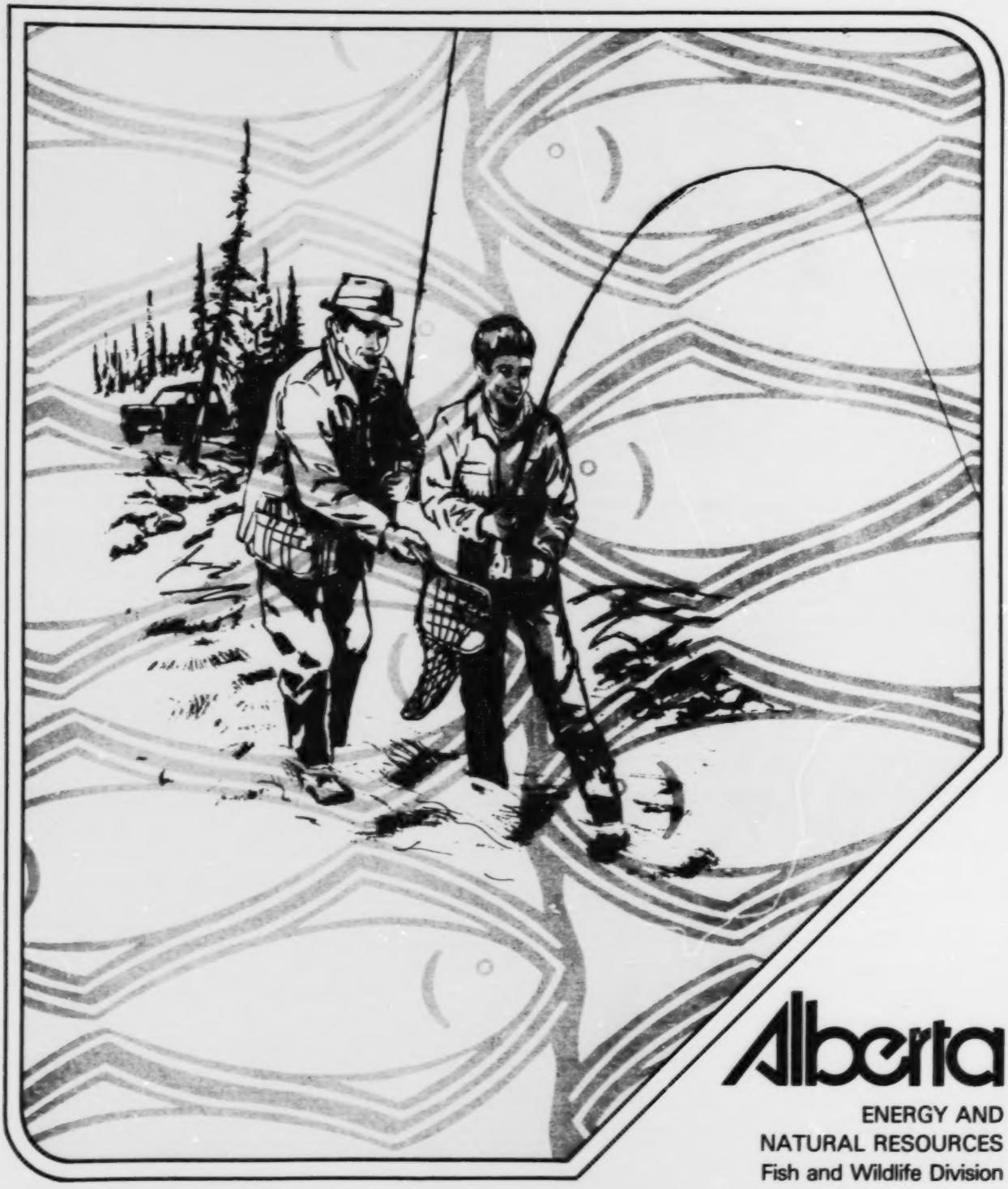
The Sport Fishery in Alberta: Facts and Figures for 1975 and 1980

Fisheries Management Report No. 28



Alberta

ENERGY AND
NATURAL RESOURCES
Fish and Wildlife Division

THE SPORT FISHERY IN ALBERTA:

FACTS AND FIGURES FOR 1975 AND 1980

FISHERIES MANAGEMENT REPORT NO. 28

THE SPORT FISHERY IN ALBERTA:

FACTS AND FIGURES FOR 1975 AND 1980

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INTRODUCTION

At a meeting in 1970 attended by federal, provincial and territorial sport fisheries managers, and representatives from angling and other related organizations, the need to develop a basic framework of information regarding angler activities was identified as a major requirement to understand and properly manage Canada's sport fisheries. At this and subsequent Canadian Sportfishing Conferences (as they are now called), government agencies coordinated efforts to ascertain the number of anglers, total catch of fish, and dollars expended for sportfishing on a national as well as provincial basis through angler questionnaire surveys. These surveys were to be conducted every five years by each provincial or territorial fisheries management agency in cooperation with the Department of Fisheries and Oceans (Canada). The first national survey was conducted for the year 1975, the second for the year 1980.

This report summarizes information from the 1975 and 1980 Surveys of Sportfishing in Alberta. Although the questions used in the 1975 and 1980 surveys differed slightly, comparable information from both surveys has been summarized and correlated to show general trends in angler numbers, activities, catches and expenditures. Detailed statistics for all of these categories are presented in the Appendix. Although it is intended primarily for use in sport fisheries management, information presented in this report will be valuable in the planning and management of other natural resources associated with recreationally important waters.

METHODOLOGY

The questions included in the 1975 and 1980 Surveys of Sportfishing were developed jointly by the Department of Fisheries and Oceans (Canada), and each provincial sport fisheries management agency. The questionnaires were printed by the federal government, and mailed out to a sample population of anglers determined by each provincial agency. Questionnaires were mailed to anglers in early 1976 and 1981 to ensure that angler responses encompassed the entire preceding calendar year.

In Alberta, questionnaires were sent to anglers whose names and addresses were randomly selected from angling licence counterfoils. The sample population reflected the relative numbers of each of three types of angling licences sold in Alberta: the Resident licence, which applies to Albertans and other Canadian residents; the Non-Resident Seasonal licence, which applies to all non-Canadian anglers; and the Non-Resident Limited licence, which applies to all non-Canadian anglers and is valid for three days only. Of 2,571 questionnaires sent out in 1976, 1,385 (53.9%) were returned; of 3,913 sent out in 1981, 2,493 (63.7%) were returned.

Although the sample populations were based on types of licences sold in 1975 and 1980, the information derived from the surveys and presented in this report has been summarized according to angler residence. In this report, "resident angler" refers to an angler who resided in Alberta during the year of each survey; "non-resident angler" refers to any other angler who fished in Alberta during the year of each survey.

All recovered questionnaires were forwarded to the Economic Policy Branch, Fisheries and Oceans (Canada) for analysis. This agency designed the computer program, and determined the weighting of various factors used to estimate sportfishing and boating activities, angler success and expenditures. Information from the 1980 survey shows angling activity by residents, in each of Alberta Energy and Natural Resources Administrative Regions.

THE PROVINCIAL ANGLING POPULATION

Significant increases in annual angling licence sales recorded since 1967 indicate the growing popularity of sportfishing as a recreational pastime in Alberta. Resident angling licence sales totalled 295,771 in 1980, an increase of 41.9% over the 1975 total of 208,476 (Table 1). This increase in licence sales cannot be attributed simply to provincial population growth, but reflects recruitment to sportfishing recreation. Licenced anglers represented 11.9% of the provincial population in 1975, but recruitment of new anglers increased this proportion to 14.1% in 1980 (Table 1). Total angling licences sold in Alberta since 1967 reflect steady annual increases (Table 54, Appendix), and similar increases are expected for the future.

Table 1

ANGLING LICENCES SOLD IN ALBERTA IN 1975 AND 1980

	1975	1980	% Increase
Total Angling Licences Sold	218,460	308,444	41.2%
Licences Sold to Resident (Alberta) Anglers	208,476	295,771	41.9%
Population of Alberta*	1,758,260	2,094,212	19.1%
Resident (Alberta) Anglers as % of Provincial Population	11.9%	14.1%	

* Alberta Bureau of Statistics

Resident anglers represented 95.4% of all licenced anglers in 1975 and 95.9% of all licenced anglers in 1980. In both years, most of the licenced anglers were males, between 25 and 34 years of age (Table 55, Appendix). The age distributions of the licenced provincial angling population in 1975 and 1980 are presented in Tables 55 and 56, Appendix.

Sportfishing activity determined from surveyed licence holders represented minimum activity in the province, since anglers under the age of 16 or over the age of 65 do not require a licence to fish, and could not be included in the survey. Carss et al. (1978)[1] found that legally unlicenced anglers (those under 16 or over 65) constituted 31.0% of all Alberta anglers surveyed between 1975 and 1977. In addition, 3.3% of all anglers between 16 and 65 fished illegally without a licence.

In the 1975 and 1980 Surveys of Sportfishing, only those legally unlicenced anglers who were part of a licenced angler household were represented - probably only a small percentage of the total legally unlicenced provincial angling population. Because the majority of the legally and illegally unlicenced anglers could not be included in the surveys, it is assumed that actual angling activity in 1975 and 1980 is substantially higher (possibly as much as 30%) than that indicated by the statistics presented in this report.

Those licenced anglers who actually fished during a given year are referred to as "active" anglers. There were 263,471 active anglers in 1980,

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1 Carss, J.E., E. Psikla and C.E. Stenton. 1978. The Impact of the Unlicenced Angler on the Sports Fishery in Alberta. Fisheries Management Report No. 26, Alberta Energy and Natural Resources. 20 p.

Table 2

COMPARISON OF THE 1975 and 1980

ALBERTA ANGLING POPULATION

	1975	1980	% Change
Licenced Anglers			
Resident	208,476	295,771	+41.9%
Non-Resident (Canadian)	5,807	7,585	+30.6%
Non-Resident (Other)	4,177	5,088	+21.8%
Non-Resident Total	9,984	12,673	+26.9%
Total	218,460	308,444	+41.2%
Active Anglers			
Resident (%)	187,003 (89.7%)	252,059 (85.2%)	+31.1%
Non-Resident (%)	9,394 (94.1%)	11,412 (90.0%)	+21.5%
Total	196,397	263,471	+34.2%

an increase of 34.2% over 196,397 active anglers in 1975 (Table 2). These active anglers represented over 85% of the angling population in 1980, and almost 90% of the angling population in 1975. Most resident anglers regard angling as an annual recreational pastime, sustained over many years; of all anglers who fished in 1980, 70.1% of the residents and 33.0% of the non-residents had fished in Alberta during the previous five years (Table 3).

Table 3

YEARS PREVIOUSLY FISHED IN ALBERTA BY
1980 ACTIVE LICENCED ANGLERS

	ACTIVE RESIDENT ANGLERS		ACTIVE NON-RESIDENT ANGLERS	
YEARS FISHED	(Number)	(% 1980 Total)	(Number)	(% 1980 Total)
1980	252,059	100.0	11,412	100.0
1979	234,946	93.2	8,028	70.3
1978	219,735	87.2	7,210	63.2
1977	200,129	79.4	4,504	39.5
1976	185,293	73.5	4,656	40.8
1975	176,638	70.1	3,760	33.0

ANNUAL ANGLING ACTIVITY

The importance of sportfishing as a recreational pastime in Alberta is clearly indicated by annual increases in angling licence sales and man-days of angling. Licenced anglers accounted for 4,511,028 man-days of angling in 1980, approximately twice the total of 1975 (Table 4). Legally unlicenced anglers (anglers over 65 or under 16 years of age who may legally fish without a licence) residing in licenced angler households accounted for an estimated additional 946,997 man-days in 1980, increasing the total annual man-days of angling to 5,458,025. However, this figure should be regarded as a minimum estimate, since it does not reflect the sportfishing activity of all unlicenced anglers (see "The Angling Population", this report).

The observed increase in man-days of angling by licenced anglers between 1975 and 1980 can be attributed to an increase in numbers of active anglers, and an extension of individual fishing effort from an average of 11.4 days/angler in 1975 to 17.1 days/angler in 1980 (Table 4). Annual angling activity, and average individual angling effort of residents and non-residents in 1975 and 1980 are compared in Table 57, Appendix.

Increased fishing effort in 1980 was most apparent during the winter season, which represented 14.37% of the annual sportfishing activity (Table 5). Angler catches of perch, a species commonly taken by ice-fishing, rose markedly in 1980, also suggesting increased winter sportfishing activity (Table 6). Relatively mild weather, and a low snowfall which did not significantly restrict access to lakes, produced good winter fishing conditions in 1980. General economic prosperity in the province during the winter of 1980 also probably contributed to increased sportfishing activity.

Table 4

MAN-DAYS OF ANGLING BY LICENCED ACTIVE ANGLERS FOR EACH MONTH IN 1975 AND 1980*

	1975		1980	
	MAN-DAYS		MAN-DAYS	
	(Number)	(% Annual Total)	(Number)	(% Annual Total)
January	51,120	2.28	154,187	3.42
February	52,971	2.36	150,874	3.34
March	44,377	1.98	181,104	4.01
April	22,452	1.00	162,274	3.60
May	129,871	5.78	426,899	9.46
June	344,053	15.32	752,971	16.69
July	617,062	27.47	1,031,084	22.86
August	562,604	25.05	845,171	18.74
September	250,945	11.17	461,391	10.23
October	89,657	3.99	166,224	3.69
November	29,660	1.32	58,338	1.29
December	51,116	2.28	120,511	2.67
ANNUAL TOTAL	2,245,888	100.00	4,511,028	100.00
AVERAGE DAYS/ ACTIVE ANGLER	11.4		17.1	

*Licenced Active Anglers = 196,397 in 1975; 263,471 in 1980.

Table 5

SEASONAL ANGLING ACTIVITY BY LICENCED ACTIVE ANGLERS
IN 1975 AND 1980

	1975		1980	
SEASON	Man-Days of Angling	% Annual Total	Man-Days of Angling	% Annual Total
Winter (January-April)	170,920	7.62	648,439	14.37
Summer (May-September)	1,904,535	84.79	3,517,516	77.98
Fall (October-December)	170,433	7.59	345,073	7.65
Total	2,245,888	100.00	4,511,028	100.00

ANGLER SUCCESS

Of 252,059 active resident anglers, 225,011 (89.3%) were successful in catching fish in 1980; of 11,412 active non-resident anglers, 8,748 (76.7%) were successful in catching fish in 1980. Comparable information was not available for 1975.

A total of 10,572,495 fish were caught by anglers in 1980 -- more than twice the number caught in 1975 (Table 6; Table 58, Appendix). The number of perch caught by anglers in 1980 greatly exceeded that of 1975, probably because of the excellent winter fishing conditions in 1980, as this species is taken most often by ice-fishing. The average number of fish caught increased from 23.58 fish/active angler in 1975 to 40.12 fish/active angler in 1980 (Table 6). The average number of fish caught/man-day of angling increased from 2.0 fish/man-day in 1975 to 2.3 fish/man-day in 1980.

Resident catches in 1980 averaged 58 lbs./angler, with 81.9% of the catch being eaten; the balance was given away or disposed of in some other manner. Non-resident catches in 1980 averaged 26.3 lbs./angler, with 77.2% being eaten; the balance was given away or disposed of in some other manner. Comparable information was not available for 1975.

Total weight of fish caught by licenced anglers exceeded the commercial harvest of fish in both 1975 and 1980 (Table 7). It is emphasized that all figures pertaining to the sportfishing catch are considered to be <u>minimum estimates</u>, since they do not include fish caught by unlicenced anglers (see "The Angling Population", this report).

Table 6

NUMBER OF FISH CAUGHT AND RETAINED

BY ANGLERS IN 1975 AND 1980

SPECIES	1975 FISH CAUGHT (Number)	1975 FISH CAUGHT (% Total)	1980 FISH CAUGHT (Number)	1980 FISH CAUGHT (% Total)
Pike	1,499,190	32.38	2,807,999	26.56
Perch	930,666	20.10	2,995,078	28.33
Walleye	342,382	7.39	891,417	8.43
Trout	1,361,941	29.41	2,242,519	21.21
Goldeye	63,644	1.37	188,493	1.78
Lake Whitefish	336,214*	7.26*	465,881	4.41
Mountain Whitefish			798,606	7.55
Arctic Grayling	59,618	1.29	157,995	1.50
Other	36,942	0.80	24,507	0.23
TOTAL	4,630,597	100.00	10,572,495	100.00
Active Fish/ Active Angler	23.58		40.12	
Catch/Man-Days Of Angling	2.061		2.343	

*Species not distinguished in 1975 survey.

Table 7

COMPARISON OF SPORT AND COMMERCIAL CATCHES OF FISH IN 1975 AND 1980

	1975	1980
Sportfishing Catch by Licenced Anglers (pounds)	4,630,597*	13,254,696**
Commercial Fishing Catch (pounds)	4,289,594	4,460,533

*Because no estimation of weight of angler catches was requested in the 1975 Survey of Sportfishing, this figure was calculated from an average weight of 1 pound/sportfish caught.

**This figure was calculated from estimations of weight of angler catches expressed in the 1980 Survey of Sportfishing.

Because pike are numerous and widely distributed throughout Alberta, they are caught by anglers more often than any other species. In 1975, pike accounted for 32.38% of the annual sportfishing catch, trout for 29.41%, and perch for 20.10% (Table 6). In 1980, however, more perch were caught than any other species. Perch accounted for 28.33% of the annual sportfishing catch, pike for 26.56%, and trout for 21.21% (Table 6).

Pike and perch are caught more often than any other species of fish, however anglers indicated in the 1980 Survey of Sportfishing that these two species rank below trout and walleye in order of angler preference (Table 8). Although walleye and trout are not as widely distributed, and walleye in particular are caught less often, their angler appeal is very high.

Table 8

ANGLER PREFERENCES FOR ALBERTA SPORTFISH SPECIES

	RESIDENT ANGLERS		NON-RESIDENT ANGLERS
1.	Trout (all species)	1.	Trout (all species)
2.	Walleye	2.	Walleye
3.	Yellow Perch	3.	Northern Pike
4.	Northern Pike	4.	Yellow Perch
5.	Lake Whitefish	5.	Lake Whitefish
6.	Mountain Whitefish	6.	Arctic Grayling
7.	Arctic Grayling	7.	Mountain Whitefish
8.	Goldeye	8.	Goldeye

ANGLER HOUSEHOLD EXPENDITURES

Expenditures by angler households comprise two categories: major purchases (clothing, camping and fishing equipment, boats and vehicles, cottages, etc.) and costs associated with fishing holidays (food, lodging, travel, boat rentals, etc.). Angler expenditures in both categories together totalled $242,628,491 in 1980 -- more than 2.5 times the 1975 total of $107,620,133 (Table 9). Total expenditures by residents averaged $507.84/angler in 1975 and $810.56/angler in 1980; total expenditures by non-residents averaged $175.08 in 1975 and $228.01 in 1980 (Table 59, Appendix).

Table 9

TOTAL ANGLER EXPENDITURES IN 1975 AND 1980

EXPENDITURE CATEGORY	1975	1980
Major Purchases	$ 70,172,917	$ 180,058,307
Average Expenditure/Angler*	$ 321	$ 584
Fishing Holiday Costs	$ 37,447,216	$ 62,570,184
Average Expenditure/Angler*	$ 171	$ 203
Total Expenditures	$ 107,620,133	$ 242,628,491
Number of Licenced Anglers	218,460	308,444
Average Expenditure/Angler*	$ 493	$ 787

*Average expenditures per angler are rounded to the nearest dollar, and are based on licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

Expenditures for major purchases by anglers totalled $180,058,307 in 1980, an average of $583.76/angler (Table 9; Table 60a, Appendix). This amount is more than 2.5 times the 1975 total of $70,172,917 ($321.22/angler) spent on major purchases in 1975. Greater angler expenditures in 1980 may be attributable to an increase in the number of boats owned by angler households, and higher costs of other purchases, as a result of inflation. The total cost of fishing holidays in 1980 is estimated at $62,570,184, an average cost of $202.86/angler (Table 9; Table 60b, Appendix). The amount spent on fishing holidays in 1980 is approximately 1.7 times the 1975 total of $37,447,216 ($171.41/angler).

Although some major purchases could serve many recreational purposes, sportfishing accounted for a great percentage of their use, expressed here as "dollars invested for sportfishing". Resident anglers estimated that 51.0% or $91,394,810 of their expenditures for major purchases in 1980 were invested for sportfishing; non-resident anglers estimated that 76.4% or $562,325 of their expenditures for major purchases in 1980 were invested for sportfishing (Table 10; Table 60a, Appendix).

Together, expenditures associated with fishing holidays, and dollars invested for sportfishing are considered to be "dollars attributable to fishing". In 1980, 63.3% of resident angler expenditures, and 94.0% of non-resident angler expenditures were attributable to fishing.

Table 10

TOTAL EXPENDITURES BY RESIDENT AND NON-RESIDENT ANGLERS IN 1980

EXPENDITURE CATEGORY	RESIDENT ANGLERS	NON-RESIDENT ANGLERS	TOTAL
Major Purchases	$179,322,648	$735,659	$180,058,307
Dollars Invested in Sportfishing	$91,394,810 (51.0% of Major Purchases)	$562,325 (76.4% of Major Purchases)	$91,957,135 (51.1% of Major Purchases)
Fishing Holidays	$60,416,309	$2,513,875	$62,570,184
Total Expenditures	$239,738,957	$2,889,534	$242,628,491
	$811/angler	$228/angler	$787/angler
Dollars Attributable to Sportfishing	$151,811,119	$2,716,200	$154,527,319
	(63.3% of Total Expenditures)	(94.0% of Total Expenditures)	(63.7% of Total Expenditures)

RESIDENT ANGLER HOUSEHOLD BOAT OWNERSHIP AND USE

Of all licenced resident anglers, 92,943 indicated they, or members of their households, owned one or more boats in 1980 (Table 61, Appendix). The number of boats owned by these households in 1980 totalled 112,986, almost twice the 1975 total of 61,710 (Table 11). Boats represented a sizeable investment for those anglers who purchased them. More outboards (mainly 12 - foot cartop boats) were owned than any other type of boat; their average value was estimated at $2,240/boat in 1980 (Table 61, Appendix).

Although boats owned by angler households were used for a variety of water-based activities in 1980, sportfishing days totalled 923,222, approximately 47.8% of all boating recreation days (Table 12). Angler households averaged 6.7 sportfishing days/boat in 1975 and 8.2 sportfishing days/boat in 1980 (Table 13).

In 1980, inboards were used more for sportfishing than were all other craft, averaging 12.8 sportfishing days/boat. Outboards (9.7 days/boat) and Inboard-Outboards (9.3 days/boat) were the next most popular sportfishing craft (Table 13). The popularity of these craft indicates a definite shift toward the use of power boats for sportfishing, particularly larger, more expensive craft. The total estimated value of boats owned by anglers was $56,394,983 in 1975 and $201,402,725 in 1980 (Table 11). This represents a 280% increase.

By comparison, rowboats and outboards were the two favoured craft for sportfishing in 1975, averaging 8.5 days/boat and 8.4 days/boat respectively. Canoes were the next most popular sportfishing craft, averaging 5.7 days/boat (Table 13).

Table 11
BOATS OWNED BY RESIDENT ANGLER HOUSEHOLDS
AND MARKET VALUE IN 1975 AND 1980

TYPE OF BOAT	1975 Number Of Boats Owned	1975 Market Value	1980 Number Of Boats Owned	1980 Market Value
Outboard	27,109	$ 29,841,000	64,165	$ 143,718,577
Canoe	13,483	$ 4,839,657	27,404	$ 13,924,571
Rowboat	5,463	$ 2,136,125	12,643	$ 8,598,028
Skiff or Other	12,858*	$ 14,712,103*	3,289	$ 2,618,121
Inboard - Outboard	484	$ 3,189,070	2,739	$ 22,615,321
Sailboat	1,675	$ 838,514	2,051	$ 3,969,227
Inboard	638	$ 838,514	371	$ 4,971,354
Houseboat	—	—	324	$ 987,526
TOTAL	61,710	$ 56,394,983	112,986	$ 201,402,725

* May include houseboats, as no category existed for this craft in the 1975 Survey of Sportfishing.

Table 12

RECREATIONAL AND SPORTFISHING USE OF BOATS

OWNED BY RESIDENT ANGLER HOUSEHOLDS IN 1975 AND 1980

Type of Boat	1975			1980		
	Total Days All Recreation	Total Days Sportfishing	Sportfishing Days as % of Recreation Days	Total Days All Recreation	Total Days Sportfishing	Sportfishing Days As % of Recreation Days
1. Outboard	350,992	226,533	64.5%	1,210,807	625,540	51.7%
2. Inboard-Outboard	3,607	676	18.7%	53,742	25,348	47.2%
3. Rowboat	80,104	46,324	57.8%	187,508	88,214	47.0%
4. Skiff or Other	83,368*	55,723*	66.8%*	39,880	18,021	45.2%
5. Canoe	211,370	77,499	36.7%	392,823	159,125	40.5%
6. Inboard	5,854	2,702	46.2%	11,879	4,762	40.1%
7. Sailboat	23,997	4,725	19.7%	34,302	2,212	6.4%
8. Houseboat	—	—	—	486	—	—
TOTAL	759,292	414,182	54.5%	1,931,427	923,222	47.8%

* May include houseboats as no category existed for this craft in the 1975 survey.

Table 13

AVERAGE NUMBER OF SPORFISHING DAYS/BOAT IN 1975 AND 1980

TYPE OF BOAT	1975	1980
Outboard	8.4	9.7
Canoe	5.7	5.8
Rowboat	8.5	7.0
Skiff or Other	4.3*	5.5
Inboard-Outboard	1.4	9.3
Sailboat	2.8	1.1
Inboard	4.2	12.8
Total	6.7	8.2

*May include houseboats, as no category existed for this craft in the 1975 Survey of Sportfishing. No houseboats were reported used for sportfishing in 1980.

ANGLER DISTRIBUTION

More than 43% of the licenced resident anglers in 1980 lived in the Northeast Administrative Region, which includes Edmonton and the "Lakeland" district near Lac La Biche and Cold Lake (Figure 1). The combined number of licenced anglers residing in the Central and Southern Regions only slightly exceeded the angling population of the Northeast Region (Table 14, Figure 1).

Almost 60% of the non-resident anglers who travelled to Alberta to fish in 1980 resided in other parts of Canada, mainly B.C. (Table 14; Table 62 and Figure 2, Appendix). The rest of the non-resident anglers consisted of Americans, and a few anglers from other countries. The number of Americans who fished in Alberta in 1980 only slightly exceeded the number who fished here in 1975; the number of Europeans who fished in Alberta in 1980 greatly exceeded the number who fished here in 1975 (Table 15).

Table 15

GEOGRAPHIC DISTRIBUTION OF ALL LICENCED NON-RESIDENT ANGLERS

RESIDENCE	1975 (Number)	(% Total)	1980 (Number)	(% Total)
Canada	5,807	58.1	7,585	59.8
United States	4,012	40.2	4,128	32.6
Other	165	1.7	960	7.6
Total	9,984	100.0	12,673	100.0

Table 14

GEOGRAPHIC DISTRIBUTION OF

1980 ALBERTA ANGLING POPULATION

RESIDENCE	LICENCED ANGLERS (Number)	(% Total)
RESIDENT (ALBERTA) ANGLERS		
Northeast Region	128,508	43.4
Central Region	98,477	33.3
Southern Region	31,037	10.5
Peace River Region	18,120	6.1
Eastern Slopes Region	14,931	5.0
Athabasca Region	4,027	1.4
Jasper National Park	503	0.2
Banff National Park	168	0.1
Total	295,771	100.0
NON-RESIDENT CANADIAN ANGLERS		
British Columbia	3,266	43.0
Manitoba/Saskatchewan	2,739	36.1
Ontario	1,334	17.6
Maritimes	211	2.8
Territories	35	0.5
Total	7,585	100.0
NON-RESIDENT ALIEN ANGLERS		
United States	4,128	81.1
Other	960	18.9
Total	5,088	100.0
TOTAL LICENCED ANGLERS	308,444	

Figure 1

ENERGY AND NATURAL RESOURCES REGIONS

——— REGIONAL BOUNDARIES

REGIONAL ANGLING ACTIVITY, 1980

Most active anglers in 1980 (63.7% of residents and 83.0% of non-residents) fished in one region only, and resident anglers usually concentrated their activity in the region in which they resided (Table 16; Table 63, Appendix)[2]. However, there are some exceptions to this general trend. As indicated in the 1980 survey, the Eastern Slopes Region is intensively fished by anglers from across the province because of its high quality stream sportfishing opportunities. Since it is very sparsely settled, angling activity of other resident anglers exceeds that of regional residents.

Conversely, Banff and Jasper National Parks are the least fished areas in the province, although they offer similar stream fishing opportunities. Total man-days of angling in both national parks constituted only 5.0% of all resident angling in 1980, with little or none of this activity attributable to anglers who reside in the parks (Table 63, Appendix). This may be due to the necessary purchase of an additional licence for sportfishing in the parks.

The Northeast region contains the "Lakeland", one of the most popular sportfishing areas in Alberta. In 1980, most of the provincial sportfishing activity was concentrated in the Northeast region; 88.4% of this activity could be attributed to anglers residing in the region. Because most lakes in

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2 This may explain why only 6.4% of resident anglers fished Trophy Lakes in 1980, since most of these lakes are located in the unsettled, and largely inaccessible northern part of the province.

Table 16

NUMBER OF ADMINISTRATIVE REGIONS FISHED IN 1980
BY ACTIVE RESIDENT AND NON-RESIDENT ANGLERS

ADMINISTRATIVE REGIONS FISHED IN 1980 (Number)	ACTIVE RESIDENT ANGLERS (Number)	ACTIVE RESIDENT ANGLERS (% Total)	ACTIVE NON-RESIDENT ANGLERS (Number)	ACTIVE NON-RESIDENT ANGLERS (% Total)
1	160,560	63.7	9,470	83.0
2	63,870	25.3	1,572	13.8
3	19,341	7.7	276	2.4
4	6,662	2.6	76	0.7
5	975	0.4	18	0.1
6	163	0.1	—	—
7	163	0.1	—	—
8	325	0.1	—	—
TOTAL	252,059	100.0	11,412	100.0

the Athabasca region are not easily accessible, many residents of the Athabasca region travel south to fish in the Northeast region.

Sportfishing activity in each administrative region in 1980 is compared in Table 17, and discussed in detail in the following Regional Sportfishing Profiles. The profiles also describe the number of fish caught in each region, the licenced regional angler population (i.e. the number of licenced anglers who resided in each region in 1980), sportfishing activity and success of regional anglers, and expenditures and boat ownership of regional angler households.

Table 17
SPORTFISHING ACTIVITY IN EACH
ADMINISTRATIVE REGION IN 1980

ADMINISTRATIVE REGION	NUMBER OF ACTIVE ANGLERS WHO FISHED EACH REGION	MAN-DAYS OF ANGLING	TOTAL FISH CAUGHT	AVERAGE FISH CAUGHT/ANGLER*	AVERAGE FISH CAUGHT/MAN-DAY*
Northeast	122,506	1,462,698	4,232,984	34.55	2.89
Eastern Slopes	93,832	911,720	1,869,131	19.92	2.05
Central	74,981	762,041	1,221,304	16.29	1.60
Southern	49,698	587,773	1,107,472	22.28	1.88
Peace River	42,701	384,749	882,026	20.65	2.29
Athabasca	24,215	177,043	747,084	30.85	4.22
Banff	28,800	135,014	154,472	5.36	1.14
Jasper	22,998	89,989	147,180	6.39	1.64
TOTAL	263,471	4,511,027	10,361,653	39.33	2.30

*These figures do not include fish caught for which no region was specified.

SPORTFISHING PROFILE OF THE PEACE RIVER ADMINISTRATIVE REGION, 1980

The Regional Angling Population

An estimated 18,120 licenced anglers resided in the Peace River region in 1980; 14,913 (82.3%) of them actually fished, or were "active". Licenced regional anglers comprised 6.1% of the licenced provincial resident angling population in 1980.

Regional Sportfishing Activity

Sportfishing activity by an estimated 42,701 licenced anglers totalled 384,749 man-days in the Peace River region in 1980, an average of 9.0 days/angler (Table 17). Angling in the Peace River region represented 8.5% of all provincial angling in 1980.

Most (59.4%) of the resident angling can be attributed to anglers who lived in the Peace River region (Table 18; Table 63, Appendix). Resident and non-resident angling totalled 376,261 and 8,488 man-days respectively (Table 64, Appendix).

Table 18

SUMMARY OF SPORTFISHING ACTIVITY IN THE PEACE RIVER REGION BY LICENCED RESIDENT ANGLERS

RESIDENCE	NUMBER OF ANGLERS	MAN-DAYS OF ANGLING	AVERAGE DAYS/ANGLER	TOTAL FISH CAUGHT
Peace River	13,112	223,336	17.0	370,382
Northeast	17,645	106,970	6.1	358,615
Eastern Slopes	2,105	26,670	12.7	56,455
Central	6,152	17,797	2.9	72,654
Southern	2,105	1,488	0.7	3,570
Total	41,119	376,261	9.2	861,676

Annual Sportfishing Activity by Anglers Residing in Peace River Region

Provincial sportfishing by 14,913 active anglers residing in the Peace River region totalled 274,882 man-days (18.4 days/angler) in 1980, representing 6.2% of all resident angling (Table 63, Appendix). Seasonal sportfishing activity of anglers residing in the Peace River region in 1980 is presented in Table 19.

Table 19

SUMMARY OF SEASONAL SPORTFISHING ACTIVITY
BY ANGLERS RESIDING IN THE PEACE RIVER REGION

MONTH	MAN-DAYS OF ANGLING (Number)	(% Annual Total)
January	3,633	
February	5,407	
March	10,180	
April	12,880	
Seasonal Total, Winter	32,100	11.7
May	37,623	
June	52,064	
July	62,651	
August	50,380	
September	27,586	
Seasonal Total, Summer	230,304	83.8
October	6,629	
November	2,216	
December	3,633	
Seasonal Total, Fall	12,478	4.5
Annual Total	274,882	100.0

Angler Success

An estimated 882,026 fish were caught in the Peace River region in 1980; 861,676 of these were caught by provincial resident anglers, and 20,350 by non-resident anglers (Table 65, Appendix). Sportfish caught in the Peace River region represented 8.3% of the resident angler catch and 15.6% of the non-resident angler catch in 1980 (Tables 66 and 67, Appendix). Forty-two percent of all fish caught in the Peace River region in 1980 were caught by anglers residing in the region (Table 65, Appendix). Pike were caught most often; this species constituted 39.2% of the regional sportfish catch in 1980 (Table 20).

Table 20

SPORTFISH CAUGHT IN THE PEACE RIVER REGION IN 1980

SPECIES	FISH CAUGHT (Number)	(% Total)
Pike	345,593	39.2
Perch	170,816	19.4
Walleye	189,032	21.4
Trout	87,334	9.9
Goldeye	2,216	0.2
Lake Whitefish	13,124	1.5
Mountain Whitefish	40,634	4.6
Arctic Grayling	33,277	3.8
Total	882,026	100.0

Table 21

EXPENDITURES FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN
THE PEACE RIVER REGION

EXPENDITURE CATEGORY	DOLLARS SPENT
1. Major Purchases	
(a) Fishing Equipment (rods, reels, tackle, etc.)	$ 1,331,055
(b) Boats, Motors, Trailers	$ 2,673,874
(c) Camping Gear and Equipment	$ 846,066
(d) Special Clothing	----
(e) Vehicles	$ 3,933,913
(f) Cottages	$ 809,447
(g) Repairs to Equipment	----
(h) Other Purchases	----
Total Dollars Invested in Sportfishing	$ 6,890,111
Total Expenditures for Major Purchases (sum of a to h)	$ 9,594,355
Average Expenditure/Angler**	$ 529
2. Fishing Holidays	
(a) Fishing Package Value	$ 24,284
(b) Lodging	$ 32,806
(c) Campsite fees	$ 73,606
(d) Food	$ 759,239
(e) Travel (in Alberta)	$ 967,078
(f) Boat Rentals	$ 114,526
(g) Fishing Supplies	$ 521,725
(h) Bait	$ 41,066
(i) Cost of Running Boat	$ 195,419
(j) Guide Services	$ 763
(k) Fishing Licences	$ 85,496
(l) Other Expenditures	----
Total Independent Fishing Holiday Expenses (sum of b to l)	$ 2,791,724
Total Cost of Fishing Holidays (sum of a to l)	$ 2,816,008
Average Cost/Angler**	$ 155

* See "Angler Household Expenditures", this report.

** Average expenditures and cost/angler are based on total number of licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

Regional Angler Household Expenditures

Angler households in the Peace River region spent an estimated $12,410,363 on major recreational purchases and holiday costs associated with sportfishing in 1980 (Table 68, Appendix). Major purchases by angler households in the Peace River region represented an average expenditure of $529.49/licenced angler, while holiday costs represented an average expenditure of $155.45/licenced angler (Table 21). An estimated $6,890,111, or 71.8% of the expenditures for major recreational purchases were considered to be invested in sportfishing. Together, money invested in sportfishing, and fishing holiday costs were considered to be "dollars attributable to sportfishing", which totalled $9,706,119 or 78.2% of all expenditures by angler households in the Peace River region in 1980 (Table 68, Appendix).

Regional Angler Household Boat Ownership And Use

Angler households in the Peace River region owned an estimated 7,491 boats in 1980, and used these boats for 77,254 man-days of sportfishing (10.3 days/boat). Sportfishing represented 53.1% of all recreational boat use (Table 22; Table 69, Appendix).

Table 22

BOAT OWNERSHIP AND USE FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN THE PEACE RIVER REGION

TYPE OF BOAT	NUMBER OWNED	SPORTFISHING USE (% All Recreation)	SPORTFISHING DAYS/BOAT
Outboard	4,236	47.1	9.0
Canoe	2,509	62.1	13.8
Rowboat	483	3.4	0.5
Inboard-Outboard	81	82.4	47.0
Sailboat	162	20.0	2.0
Inboard	20	39.8	6.1
Total Boats Owned	7,491		

SPORTFISHING PROFILE OF THE ATHABASCA ADMINISTRATIVE REGION, 1980

The Regional Angling Population

An estimated 4,027 licenced anglers resided in the Athabasca region in 1980; 3,335 (83.3%) of them actually fished, or were "active". Licenced regional anglers comprised 1.4% of the licenced provincial resident angling population in 1980.

Regional Sportfishing Activity

Sportfishing activity by an estimated 24,215 licenced anglers totalled 177,043 man-days in the Athabasca region in 1980, an average of 7.3 days/angler (Table 17). Angling in the Athabasca region represented 3.9% of all provincial angling in 1980.

Most (58.5%) of the resident angling can be attributed to anglers who lived in the Northeast region (Table 23; Table 63, Appendix). Resident and non-resident angling totalled 172,083 and 4,960 man-days respectively (Table 64, Appendix).

Table 23

SUMMARY OF SPORTFISHING ACTIVITY IN THE ATHABASCA REGION BY LICENCED RESIDENT ANGLERS

RESIDENCE	NUMBER OF ANGLERS	MAN-DAYS OF ANGLING	AVERAGE DAYS/ANGLER	TOTAL FISH CAUGHT
Peace River	1,457	7,278	5.0	8,563
Athabasca	2,914	57,060	19.6	129,163
Northeast	12,951	100,695	7.8	560,153
Eastern Slopes	486	1,767	3.6	5,550
Central	3,723	2,676	0.7	26,400
Southern	1,781	2,607	1.5	2,692
Total	23,312	172,083	7.4	732,521

Annual Sportfishing Activity by Athabasca Regional Anglers

Provincial sportfishing by 3,355 active anglers residing in the Athabasca region totalled 69,126 man-days (20.6 days/angler) in 1980, representing 1.6% of all resident angling (Table 63, Appendix). Seasonal sportfishing activity of anglers residing in the Athabasca region in 1980 is presented in Table 24.

Table 24

SUMMARY OF SEASONAL SPORTFISHING ACTIVITY
BY ANGLERS RESIDING IN THE ATHABASCA REGION

MONTH	MAN-DAYS OF ANGLING (Number)	(% Annual Total)
January	1,133	
February	1,295	
March	971	
April	162	
Seasonal Total, Winter	3,561	5.2
May	5,181	
June	12,466	
July	15,703	
August	13,437	
September	11,170	
Seasonal Total, Summer	57,957	83.8
October	5,666	
November	1,133	
December	809	
Seasonal Total, Fall	7,608	11.0
Annual Total	69,126	100.0

Angler Success

An estimated 747,084 fish were caught in the Athabasca region in 1980; 732,521 of these were caught by provincial resident anglers, and 14,563 by non-resident anglers (Table 65, Appendix). Sportfish caught in the Athabasca region represented 7.0% of the resident angler catch, and 11.1% of the non-resident angler catch in 1980 (Tables 66 and 67, Appendix). Over 17% of all fish caught in the Athabasca region in 1980 were caught by anglers residing in the region (Table 65, Appendix). Pike were caught most often; this species constituted 43.3% of the regional sportfish catch in 1980 (Table 25).

Table 25

SPORTFISH CAUGHT IN THE ATHABASCA REGION IN 1980

SPECIES	FISH CAUGHT (Number)	(% Total)
Pike	323,469	43.3
Perch	242,624	32.5
Walleye	95,704	12.8
Trout	41,080	5.5
Goldeye	10,629	1.4
Lake Whitefish	11,375	1.5
Mountain Whitefish	2,435	0.3
Arctic Grayling	19,768	2.7
Total	747,084	100.0

Table 26

EXPENDITURES FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN
THE ATHABASCA REGION

EXPENDITURE CATEGORY	DOLLARS SPENT
1. Major Purchases	
(a) Fishing Equipment (rods, reels, tackle, etc.)	$ 161,890
(b) Boats, Motors, Trailers	$ 898,486
(c) Camping Gear and Equipment	$ 226,645
(d) Special Clothing	$ 323,779
(e) Vehicles	$ 2,590,231
(f) Cottages	----
(g) Repairs to Equipment	----
(h) Other Purchases	----
Total Dollars Invested in Sportfishing	$ 2,038,187
Total Expenditures for Major Purchases (sum of a to h)	$ 4,201,030
Average Expenditure/Angler**	$ 1,043
2. Fishing Holidays	
(a) Fishing Package Value	$ 33,187
(b) Lodging	$ 187,290
(c) Campsite fees	$ 56,678
(d) Food	$ 279,972
(e) Travel (in Alberta)	$ 551,784
(f) Boat Rentals	$ 6,743
(g) Fishing Supplies	$ 297,180
(h) Bait	$ 8,256
(i) Cost of Running Boat	$ 44,989
(j) Guide Services	$ 76
(k) Fishing Licences	$ 23,830
(l) Other Expenditures	----
Total Independent Fishing Holiday Expenses (sum of b to l)	$ 1,456,798
Total Cost of Fishing Holidays (sum of a to l)	$ 1,489,985
Average Cost/Angler**	$ 370

* See "Angler Household Expenditures", this report.

** Average expenditures and cost/angler are based on total number of licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

Regional Angler Household Expenditures

Angler households in the Athabasca region spent an estimated $5,691,016 on major recreational purchases and holiday costs associated with sportfishing in 1980 (Table 68, Appendix). Major purchases represented an average expenditure of $1,043.22/licenced angler, while holiday costs represented an average expenditure of $370.00/licenced angler (Table 26). An estimated $2,038,187 or 48.5% of the expenditures for major recreational purchases were considered to be invested in sportfishing. Together, money invested in sportfishing, and fishing holiday costs were considered to be "dollars attributable to sportfishing", which totalled $3,528,172 or 62.0% of all expenditures by angler households in the Athabasca region in 1980 (Table 68, Appendix).

Regional Angler Household Boat Ownership and Use

Angler households in the Athabasca region owned an estimated 1,375 boats in 1980, and used these boats for 21,531 man-days of sportfishing (15.7 days/boat). Sportfishing represented 54.8% of all recreational boat use (Table 27; Table 69, Appendix).

Table 27

BOAT OWNERSHIP AND USE FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN THE ATHABASCA REGION

TYPE OF BOAT	NUMBER OWNED	SPORTFISHING USE (% All Recreation)	SPORTFISHING DAYS/BOAT
Outboard	809	57.4	24.8
Canoe	405	22.2	2.0
Rowboat	161	100.0	4.0
Total Boats Owned	1,375		

SPORTFISHING PROFILE OF THE NORTHEAST ADMINISTRATIVE REGION, 1980

The Regional Angling Population

An estimated 128,508 licenced anglers resided in the Northeast region in 1980; 111,471 (86.7%) of them actually fished, or were "active". Licenced regional anglers comprised 43.4% of the licenced provincial resident angling population in 1980.

Regional Sportfishing Activity

Sportfishing activity by an estimated 122,506 licenced anglers totalled 1,462,698 man-days in the Northeast region in 1980, an average of 11.9 days/angler (Table 17). Angling in the Northeast region represented 32.4% of all provincial angling in 1980.

Most (88.4%) of the resident angling can be attributed to anglers who lived in the Northeast region (Table 28; Table 63, Appendix). Resident and non-resident angling totalled 1,444,549 and 18,149 man-days respectively (Table 64, Appendix).

Table 28

SUMMARY OF SPORTFISHING ACTIVITY IN THE NORTHEAST REGION BY LICENCED RESIDENT ANGLERS

RESIDENCE	NUMBER OF ANGLERS	MAN-DAYS OF ANGLING	AVERAGE DAYS/ANGLER	TOTAL FISH CAUGHT
Peace River	2,105	10,191	4.8	23,592
Athabasca	1,295	5,785	4.5	27,196
Northeast	90,978	1,276,746	14.0	3,779,210
Eastern Slopes	1,943	17,486	9.0	28,852
Central	19,912	123,557	6.2	284,531
Southern	2,914	10,784	3.7	40,781
Total	119,147	1,444,549	12.1	4,184,162

Annual Sportfishing Activity by Northeast Regional Anglers

Provincial sportfishing by 111,471 anglers residing in the Northeast region totalled 1,843,959 man-days (16.5 days/angler) in 1980, representing 41.4% of all resident angling (Table 63, Appendix). Seasonal sportfishing activity of anglers residing in the Northeast region in 1980 is presented in Table 29.

Table 29

SUMMARY OF SEASONAL SPORTFISHING ACTIVITY
BY ANGLERS RESIDING IN THE NORTHEAST REGION

MONTH	MAN-DAYS OF ANGLING (Number)	(% Annual Total)
January	82,319	
February	92,342	
March	108,841	
April	71,853	
Seasonal Total, Winter	355,355	19.3
May	163,686	
June	306,117	
July	401,324	
August	321,334	
September	163,249	
Seasonal Total, Summer	1,355,710	73.5
October	46,446	
November	21,394	
December	65,054	
Seasonal Total, Fall	132,894	7.2
Annual Total	1,843,959	100.0

Angler Success

An estimated 4,232,984 fish were caught in the Northeast region in 1980; 4,184,162 of these were caught by provincial resident anglers, and 48,822 by non-resident anglers (Table 65, Appendix). Sportfish caught in the Northeast region represented 40.1% of the resident angler catch, and 37.3% of the non-resident angler catch in 1980 (Tables 66 and 67, Appendix). Over 89% of all fish caught in the Northeast region in 1980 were caught by anglers residing in the region (Table 65, Appendix). Perch were caught most often; this species constituted 43.5% of the regional sportfish catch in 1980 (Table 30).

Table 30

SPORTFISH CAUGHT IN THE NORTHEAST REGION
IN 1980

SPECIES	FISH CAUGHT (Number)	(% Total)
Pike	1,369,818	32.4
Perch	1,839,346	43.5
Walleye	484,414	11.4
Trout	194,375	4.6
Goldeye	61,121	1.4
Lake Whitefish	258,062	6.1
Mountain Whitefish	14,335	0.3
Arctic Grayling	11,513	0.3
Total	4,232,984	100.0

Table 31

EXPENDITURES FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN
THE NORTHEAST REGION

EXPENDITURE CATEGORY	DOLLARS SPENT
1. Major Purchases	
(a) Fishing Equipment (rods, reels, tackle, etc.)	$ 4,508,981
(b) Boats, Motors, Trailers	$ 38,700,745
(c) Camping Gear and Equipment	$ 17,929,929
(d) Special Clothing	$ 23,069
(e) Vehicles	$ 27,471,962
(f) Cottages	$ 7,231,061
(g) Repairs to Equipment	$ 540
(h) Other Purchases	$ 348,062
Total Dollars Invested in Sportfishing	$ 45,622,427
Total Expenditures for Major Purchases (sum of a to h)	$ 96,214,349
Average Expenditure/Angler**	$ 749
2. Fishing Holidays	
(a) Fishing Package Value	$ 272,784
(b) Lodging	$ 1,429,518
(c) Campsite fees	$ 1,159,339
(d) Food	$ 7,904,095
(e) Travel (in Alberta)	$ 7,881,749
(f) Boat Rentals	$ 280,192
(g) Fishing Supplies	$ 4,408,645
(h) Bait	$ 456,444
(i) Cost of Running Boat	$ 2,405,335
(j) Guide Services	$ 5,209
(k) Fishing Licences	$ 732,768
(l) Other Expenditures	$ 605,790
Total Independent Fishing Holiday Expenses (sum of b to l)	$ 27,269,084
Total Cost of Fishing Holidays (sum of a to l)	$ 27,541,868
Average Cost/Angler**	$ 214

* See "Angler Household Expenditures", this report.

** Average expenditures and cost/angler are based on total number of licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

Regional Angler Household Expenditures

Angler households in the Northeast region spent an estimated $123,756,217 on major recreational purchases and holiday costs associated with sportfishing in 1980 (Table 68, Appendix). Major purchases by angler households in the Northeast region represented an average expenditure of $748.70/licenced angler, while holiday costs represented an average expenditure of $214.32/licenced angler (Table 31). An estimated $45,622,427, or 47.4% of the expenditures for major recreational purchases were considered to be invested in sportfishing. Together, money invested in sportfishing, and fishing holiday costs were considered to be "dollars attributable to sportfishing", which totalled $73,164,295 or 59.1% of all expenditures by angler households in the Northeast region in 1980 (Table 68, Appendix).

Regional Angler Household Boat Ownership And Use

Angler households in the Northeast region owned an estimated 58,098 boats in 1980, and used these boats for 494,590 man-days of sportfishing (8.5 days/boat). Sportfishing represented 46.3% of all recreational boat use (Table 32; Table 69, Appendix).

Table 32

BOAT OWNERSHIP AND USE FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN THE NORTHEAST REGION

TYPE OF BOAT	NUMBER OWNED	SPORTFISHING USE (% All Recreation)	SPORTFISHING DAYS/BOAT
Outboard	33,657	47.6	10.2
Canoe	11,607	31.5	4.3
Rowboat	7,999	49.4	8.6
Skiff or Other	1,853	51.2	7.2
Inboard-Outboard	1,498	48.1	9.0
Sailboat	1,106	3.7	0.7
Inboard	135	64.1	31.4
Houseboat	243	---	---
Total Boats Owned	58,098		

SPORTFISHING PROFILE OF THE EASTERN SLOPES ADMINISTRATIVE REGION, 1980

The Regional Angling Population

An estimated 14,931 licenced anglers resided in the Eastern Slopes region in 1980; 13,165 (88.2%) of them actually fished, or were "active". Licenced regional anglers comprised 5.0% of the provincial resident angling population in 1980.

Regional Sportfishing Activity

Sportfishing activity by an estimated 93,832 licenced anglers totalled 911,720 man-days in the Eastern Slopes region in 1980, an average of 9.7 days/angler (Table 17). Angling in the Eastern Slopes Region represented 20.2% of all provincial angling in 1980.

Most (44.4%) of the resident angling can be attributed to anglers who lived in the Central region (Table 33; Table 63, Appendix). Resident and non-resident angling totalled 903,565 and 8,155 man-days respectively (Table 64, Appendix).

Table 33

SUMMARY OF SPORTFISHING ACTIVITY IN THE EASTERN SLOPES REGION BY LICENCED RESIDENT ANGLERS

RESIDENCE	NUMBER OF ANGLERS	MAN-DAYS OF ANGLING	AVERAGE DAYS/ANGLER	TOTAL FISH CAUGHT
Peace River	2,266	19,296	8.5	44,446
Athabasca	648	3,236	5.0	---
Northeast	31,082	234,358	7.5	503,849
Eastern Slopes	10,037	191,247	19.1	268,864
Central	40,472	400,902	9.9	930,111
Southern	6,961	51,773	7.4	103,165
Jasper	486	2,753	5.7	2,840
Total	91,952	903,565	9.8	1,853,275

Annual Sportfishing Activity by Eastern Slopes Regional Anglers

Provincial sportfishing by 13,165 active anglers residing in the Eastern Slopes region totalled 318,220 man-days (24.2 days/angler) in 1980, representing 7.1% of all resident angling (Table 63, Appendix). Seasonal sportfishing activity of anglers residing in the Eastern Slopes region in 1980 is presented in Table 34.

Table 34

SUMMARY OF SEASONAL SPORTFISHING ACTIVITY
BY ANGLERS RESIDING IN THE EASTERN SLOPES REGION

MONTH	MAN-DAYS OF ANGLING (Number)	(% Annual Total)
January	14,831	
February	10,296	
March	14,084	
April	17,322	
Seasonal Total, Winter	56,533	17.8
May	29,464	
June	46,300	
July	63,784	
August	56,176	
September	36,393	
Seasonal Total, Summer	232,117	72.9
October	15,323	
November	4,857	
December	9,390	
Seasonal Total, Fall	29,570	9.3
Annual Total	318,220	100.0

Angler Success

An estimated 1,869,131 fish were caught in the Eastern Slopes region in 1980; 1,853,275 of these were caught by provincial resident anglers, and 15,856 by non-resident anglers (Table 65, Appendix). Sportfish caught in the Eastern Slopes region represented 17.7 of the resident angler catch, and 12.1% of the non-resident angler catch in 1980 (Tables 66 and 67, Appendix). Over 14% of all fish caught in the Eastern Slopes region in 1980 were caught by anglers residing in the region (Table 65, Appendix). Trout were caught most often; this species constituted 38.4% of the regional sportfish catch in 1980 (Table 35).

Table 35

SPORTFISH CAUGHT IN THE EASTERN SLOPES REGION IN 1980

SPECIES	FISH CAUGHT (Number)	(% Total)
Pike	317,296	17.0
Perch	416,559	22.3
Walleye	39,460	2.1
Trout	717,767	38.4
Goldeye	12,246	0.7
Lake Whitefish	58,653	3.1
Mountain Whitefish	244,705	13.1
Arctic Grayling	62,445	3.3
Total	1,869,131	100.0

Table 36

EXPENDITURES FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN
THE EASTERN SLOPES REGION

EXPENDITURE CATEGORY	DOLLARS SPENT
1. Major Purchases	
(a) Fishing Equipment (rods, reels, tackle, etc.)	$ 149,343
(b) Boats, Motors, Trailers	$ 1,214,171
(c) Camping Gear and Equipment	$ 2,015,523
(d) Special Clothing	----
(e) Vehicles	$ 2,598,325
(f) Cottages	----
(g) Repairs to Equipment	----
(h) Other Purchases	$ 48,567
Total Dollars Invested in Sportfishing	$ 3,666,390
Total Expenditures for Major Purchases (sum of a to h)	$ 6.025,929
Average Expenditure/Angler**	$ 404
2. Fishing Holidays	
(a) Fishing Package Value	----
(b) Lodging	$ 36,458
(c) Campsite fees	$ 69,391
(d) Food	$ 540,123
(e) Travel (in Alberta)	$ 824,967
(f) Boat Rentals	$ 9,152
(g) Fishing Supplies	$ 553,732
(h) Bait	$ 55,784
(i) Cost of Running Boat	$ 112,950
(j) Guide Services	$ 3,307
(k) Fishing Licences	$ 75,753
(l) Other Expenditures	$ 60,169
Total Independent Fishing Holiday Expenses (sum of b to l)	$ 2,341,786
Total Cost of Fishing Holidays (sum of a to l)	$ 2,341,786
Average Cost/Angler**	$ 157

* See "Angler Household Expenditures", this report.

** Average expenditures and cost/angler are based on total number of licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

Regional Angler Household Expenditures

Angler households in the Eastern Slopes region spent an estimated $8,367,715 on major recreational purchases and holiday costs associated with sportfishing in 1980 (Table 68, Appendix). Major purchases by angler households in the Eastern Slopes region represented an average expenditure of $403.58/licenced angler, while holiday costs represented an average expenditure of $156.84/licenced angler (Table 36). An estimated $3,666,390 or 60.8% of the expenditures for major recreational purchases were considered to be invested in sportfishing. Together, money invested in sportfishing, and fishing holiday costs were considered to be "dollars attributable to sportfishing", which totalled $6,008,176 or 71.8% of all expenditures by angler households in the Eastern Slopes region in 1980 (Table 68, Appendix).

Regional Angler Household Boat Ownership And Use

Angler households in the Eastern Slopes region owned an estimated 5,203 boats in 1980, and used these boats 34,158 man-days of sportfishing (6.6 days/boat). Sportfishing represented 56.2% of all recreational boat use (Tables 37; Table 69, Appendix).

Table 37

BOAT OWNERSHIP AND USE FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN THE EASTERN SLOPES REGION

TYPE OF BOAT	NUMBER OWNED	SPORTFISHING USE (% All Recreation)	SPORTFISHING DAYS/BOAT
Outboard	3,075	77.5	7.7
Canoe	1,322	29.9	5.5
Rowboat	563	28.6	4.0
Skiff or Other	81	---	---
Inboard-Outboard	162	16.7	5.0
Total Boats Owned	5,203		

SPORTFISHING PROFILE OF THE CENTRAL ADMINISTRATIVE REGION, 1980

The Regional Angling Population

An estimated 98,477 licenced anglers resided in the Central region in 1980; 82,953 (84.2%) of them actually fished, or were "active". Licenced regional anglers comprised 33.3% of the licenced provincial resident angling population in 1980.

Regional Sportfishing Activity

Sportfishing activity by an estimated 74,981 licenced anglers totalled 762,041 man-days in the Central region in 1980, an average of 10.2 days/angler (Table 17). Angling in the Central region represented 16.9% of all provincial angling in 1980.

Most (85.5%) of the resident angling can be attributed to anglers who lived in the Central region (Table 38; Table 63, Appendix). Resident and non-resident angling totalled 753,665 and 8,376 man-days respectively (Table 64, Appendix).

Table 38

SUMMARY OF SPORTFISHING ACTIVITY IN THE CENTRAL REGION BY LICENCED RESIDENT ANGLERS

RESIDENCE	NUMBER OF ANGLERS	MAN-DAYS OF ANGLING	AVERAGE DAYS/ANGLER	TOTAL FISH CAUGHT
Peace River	1,295	7,576	5.9	2,877
Athabasca	486	1,142	2.3	809
Northeast	13,760	59,493	4.3	150,903
Eastern Slopes	971	10,717	11.0	14,961
Central	51,966	644,659	12.4	982,307
Southern	4,533	30,078	6.6	51,849
Total	73,011	753,665	10.3	1,203,706

Annual Sportfishing Activity by Central Regional Anglers

Provincial sportfishing by 82,953 active anglers residing in the Central region totalled 1,412,630 man-days (17.0 days/angler) in 1980, representing 31.7% of all resident angling (Table 63, Appendix). Seasonal sportfishing activity of anglers residing in the Central region in 1980 is presented in Table 39.

Table 39

SUMMARY OF SEASONAL SPORTFISHING ACTIVITY
BY ANGLERS RESIDING IN THE CENTRAL REGION

MONTH	MAN-DAYS OF ANGLING (Number)	(% Annual Total)
January	36,244	
February	29,270	
March	34,165	
April	33,589	
Seasonal Total, Winter	133,268	9.4
May	124,282	
June	237,427	
July	349,357	
August	290,462	
September	165,483	
Seasonal Total, Summer	1,167,011	82.6
October	63,388	
November	18,068	
December	30,895	
Seasonal Total, Fall	112,351	8.0
Annual Total	1,412,630	100.0

Angler Success

An estimated 1,221,304 fish were caught in the Central region in 1980; 1,203,706 of these were caught by provincial resident anglers, and 17,598 by non-resident anglers (Table 65, Appendix). Sportfish caught in the Central region represented 11.5% of the resident angler catch, and 13.5% of the non-resident angler catch in 1980 (Tables 66 and 67, Appendix). Over 80% of all fish caught in the Central region in 1980 were caught by anglers residing in the region (Table 65, Appendix). Trout were caught most often; this species constituted 35.0% of the regional sportfish catch in 1980 (Table 40).

Table 40

SPORTFISH CAUGHT IN THE CENTRAL REGION
IN 1980

SPECIES	FISH CAUGHT (Number)	(% Total)
Pike	61,290	5.0
Perch	292,981	24.0
Walleye	35,298	2.9
Trout	427,927	35.0
Goldeye	44,713	3.7
Lake Whitefish	55,513	4.5
Mountain Whitefish	300,125	24.6
Arctic Grayling	3,457*	0.3
Total	1,221,304	100.0

* Because Mountain Whitefish are commonly called "grayling" in southern Alberta, these Arctic Grayling are probably Mountain Whitefish.

Table 41

EXPENDITURES FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN
THE CENTRAL REGION

EXPENDITURE CATEGORY	DOLLARS SPENT
1. Major Purchases	
(a) Fishing Equipment (rods, reels, tackle, etc.)	$ 695,477
(b) Boats, Motors, Trailers	$ 16,592,066
(c) Camping Gear and Equipment	$ 9,786,094
(d) Special Clothing	$ 12,142
(e) Vehicles	$ 21,727,721
(f) Cottages	----
(g) Repairs to Equipment	----
(h) Other Purchases	$ 8,904
Total Dollars Invested in Sportfishing	$ 23,957,706
Total Expenditures for Major Purchases (sum of a to h)	$ 48,821,594
Average Expenditure/Angler**	$ 496
2. Fishing Holidays	
(a) Fishing Package Value	$ 84,992
(b) Lodging	$ 405,692
(c) Campsite fees	$ 678,149
(d) Food	$ 5,506,208
(e) Travel (in Alberta)	$ 6,861,520
(f) Boat Rentals	$ 206,769
(g) Fishing Supplies	$ 3,109,730
(h) Bait	$ 423,219
(i) Cost of Running Boat	$ 1,244,934
(j) Guide Services	$ 91,066
(k) Fishing Licences	$ 515,589
(l) Other Expenditures	$ 203,266
Total Independent Fishing Holiday Expenses (sum of b to l)	$ 19,246,142
Total Cost of Fishing Holidays (sum of a to l)	$ 19,331,134
Average Cost/Angler**	$ 196

* See "Angler Household Expenditures", this report.

** Average expenditures and cost/angler are based on total number of licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

Regional Angler Household Expenditures

Angler households in the Central region spent an estimated $68,152,728 on major recreational purchases and holiday costs associated with sportfishing in 1980 (Table 68, Appendix). Major purchases by angler households in the Central region represented an average expenditure of $495.77/licenced angler, while holiday costs represented an average expenditure of $196.30/licenced angler (Table 41). An estimated $23,957,706 or 49.1% of the expenditures for major recreational purchases were considered to be invested in sportfishing. Together, money invested in sportfishing, and fishing holiday costs were considered to be "dollars attributable to sportfishing", which totalled $43,288,840 or 63.5% of all expenditures by angler households in the Central region in 1980 (Table 68, Appendix).

Regional Angler Household Boat Ownership And Use

Angler households in the Central region owned an estimated 32,876 boats in 1980, and used these boats for 223,988 man-days of sportfishing (6.8 days/boat). Sportfishing represented 49.8% of all recreational boat use (Table 42; Table 69, Appendix).

Table 42

BOAT OWNERSHIP AND USE FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN THE CENTRAL REGION

TYPE OF BOAT	NUMBER OWNED	SPORTFISHING USE (% All Recreation)	SPORTFISHING DAYS/BOAT
Outboard	18,156	52.1	7.7
Canoe	9,460	47.9	6.1
Rowboat	2,359	52.2	6.5
Skiff or Other	1,093	33.9	3.2
Inboard-Outboard	782	45.0	8.7
Sailboat	783	10.1	1.4
Inboard	162	12.5	2.5
Houseboat	81	---	---
Total Boats Owned	32,876		

SPORTFISHING PROFILE OF THE SOUTHERN ADMINISTRATIVE REGION, 1980

The Regional Angling Population

An estimated 31,037 licenced anglers resided in the Southern region in 1980; 25,703 (82.8%) of them actually fished, or were "active". Licenced regional anglers comprised 10.5% of the licenced provincial resident angling population in 1980.

Regional Sportfishing Activity

Sportfishing activity by an estimated 49,698 licenced anglers totalled 587,773 man-days in the Southern region in 1980, an average of 11.8 days/angler (Table 17). Angling in the Southern region represented 13.0% of all provincial angling in 1980.

Most (73.0%) of the resident angling can be attributed to anglers who lived in the Southern region (Table 43; Table 63, Appendix). Resident and non-resident angling totalled 579,692 and 8,081 man-days respectively (Table 64, Appendix).

Table 43

SUMMARY OF SPORTFISHING ACTIVITY IN THE SOUTHERN REGION BY LICENCED RESIDENT ANGLERS

RESIDENCE	NUMBER OF ANGLERS	MAN-DAYS OF ANGLING	AVERAGE DAYS/ANGLER	TOTAL FISH CAUGHT
Peace River	1,619	3,783	2.3	3,211
Athabasca	486	1,903	3.9	2,940
Northeast	5,666	9,172	1.6	31,450
Eastern Slopes	1,781	41,719	23.4	158,817
Central	16,513	100,029	6.1	238,586
Southern	22,178	423,086	19.1	662,862
Total	48,243	579,692	12.0	1,097,866

Annual Sportfishing Activity by Southern Regional Anglers

Provincial sportfishing by 25,703 active anglers residing in the Southern region totalled 529,120 man-days (20.6 days/angler) in 1980, representing 11.9% of all resident angling (Table 63, Appendix). Seasonal sportfishing activity of anglers residing in the Southern region in 1980 is presented in Table 44.

Table 44

SUMMARY OF SEASONAL SPORTFISHING ACTIVITY
BY ANGLERS RESIDING IN THE SOUTHERN REGION

MONTH	MAN-DAYS OF ANGLING (Number)	(% Annual Total)
January	15,739	
February	12,012	
March	12,537	
April	25,566	
Seasonal Total, Winter	65,854	12.4
May	58,733	
June	86,708	
July	112,351	
August	102,784	
September	54,330	
Seasonal Total, Summer	414,906	78.4
October	27,570	
November	10,597	
December	10,193	
Seasonal Total, Fall	48,360	9.2
Annual Total	529,120	100.0

Angler Success

An estimated 1,107,472 fish were caught in the Southern region in 1980; 1,097,866 of these were caught by provincial resident anglers, and 9,606 by non-resident anglers (Table 65, Appendix). Sportfish caught in the Southern region represented 10.5% of the resident angler catch, and 7.3% of the non-resident angler catch in 1980 (Tables 66 and 67, Appendix). Almost 60% of all fish caught in the Southern region in 1980 were caught by anglers residing in the region (Table 65, Appendix). Trout were caught most often; this species constituted 41.5% of the regional sportfish catch in 1980 (Table 45).

Table 45

SPORTFISH CAUGHT IN THE SOUTHERN REGION
IN 1980

SPECIES	FISH CAUGHT (Number)	(% Total)
Pike	336,387	30.4
Perch	20,486	1.8
Walleye	42,763	3.9
Trout	459,802	41.5
Goldeye	56,746	5.1
Lake Whitefish	40,331	3.6
Mountain Whitefish	131,519	11.9
Arctic Grayling	19,438*	1.8
Total	1,107,472	100.0

* Because Mountain Whitefish are commonly called "grayling" in southern Alberta, these Arctic Grayling are probably Mountain Whitefish.

Table 46

EXPENDITURES FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN
THE SOUTHERN REGION

EXPENDITURE CATEGORY	DOLLARS SPENT
1. Major Purchases	
(a) Fishing Equipment (rods, reels, tackle, etc.)	$ 197,154
(b) Boats, Motors, Trailers	$ 4,751,455
(c) Camping Gear and Equipment	$ 3,449,787
(d) Special Clothing	$ 143,552
(e) Vehicles	$ 5,113,995
(f) Cottages	----
(g) Repairs to Equipment	----
(h) Other Purchases	$ 809,447
Total Dollars Invested in Sportfishing*	$ 9,219,989
Total Expenditures for Major Purchases (sum of a to h)	$ 14,465,390
Average Expenditure/Angler**	$ 466
2. Fishing Holidays	
(a) Fishing Package Value	----
(b) Lodging	$ 67,635
(c) Campsite fees	$ 216,062
(d) Food	$ 1,879,219
(e) Travel (in Alberta)	$ 3,038,253
(f) Boat Rentals	$ 27,102
(g) Fishing Supplies	$ 1,179,537
(h) Bait	$ 121,808
(i) Cost of Running Boat	$ 94,090
(j) Guide Services	$ 1,196
(k) Fishing Licences	$ 172,440
(l) Other Expenditures	----
Total Independent Fishing Holiday Expenses (sum of b to l)	$ 6,797,342
Total Cost of Fishing Holidays (sum of a to l)	$ 6,797,342
Average Cost/Angler**	$ 219

* See "Angler Household Expenditures", this report.

** Average expenditures and cost/angler are based on total number of licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

Regional Angler Household Expenditures

Angler households in the Southern region spent an estimated $21,262,732 on major recreational purchases and holiday costs associated with sportfishing in 1980 (Table 68, Appendix). Major purchases by angler households in the Southern region represented an average expenditure of $466.07/licenced angler, while holiday costs represented an average expenditure of $219.01/licenced angler (Table 46). An estimated $9,219,989, or 63.7% of the expenditures for major recreational purchases were considered to be invested in sportfishing. Together, money invested in sportfishing, and fishing holiday costs were considered to be "dollars attributable to sportfishing", which totalled $16,017,331 or 75.3% of all expenditures by angler households in the Southern region in 1980 (Table 68, Appendix).

Regional Angler Household Boat Ownership and Use

Angler households in the Southern region owned an estimated 7,379 boats in 1980, and used these boats for 71,215 man-days of sportfishing (9.7 days/boat). Sportfishing represented 65.3% of all recreational boat use (Table 47; Table 69, Appendix).

Table 47

BOAT OWNERSHIP AND USE FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN THE SOUTHERN REGION

TYPE OF BOAT	NUMBER OWNED	SPORTFISHING USE (% All Recreation)	SPORTFISHING DAYS/BOAT
Outboard	4,232	81.2	14.1
Canoe	1,939	30.2	4.7
Rowboat	676	24.9	1.3
Skiff or Other	262	34.7	4.8
Inboard-Outboard	216	37.5	1.5
Inboard	54	---	---
Total Boats Owned	7,379		

SPORTFISHING PROFILE OF BANFF NATIONAL PARK, 1980

The Regional Angling Population

An estimated 168 licenced anglers resided in Banff National Park in 1980; none actually fished, or were "active" during the year. Licenced Banff Park anglers comprised 0.1% of the licenced provincial resident angling population in 1980. Because of the small sample size, the indication that none of the anglers fished in 1980 may be erroneous.

Regional Sportfishing Activity

Sportfishing activity by an estimated 28,800 licenced anglers totalled 135,014 man-days in Banff National Park in 1980, an average of 4.7 days/angler (Table 17). Angling in Banff National Park represented 3.0% of all provincial angling in 1980.

Most (79.7%) of the resident angling can be attributed to anglers who lived in the Central region (Table 48; Table 63, Appendix). Resident and non-resident angling totalled 131,988 and 3,026 man-days respectively (Table 64, Appendix).

Table 48

SUMMARY OF SPORTFISHING ACTIVITY IN BANFF NATIONAL PARK BY LICENCED RESIDENT ANGLERS

RESIDENCE	NUMBER OF ANGLERS	MAN-DAYS OF ANGLING	AVERAGE DAYS/ANGLER	TOTAL FISH CAUGHT
Peace River	971	1,802	1.9	1,655
Northeast	8,094	12,079	1.5	6,259
Eastern Slopes	809	5,828	7.2	4,969
Central	15,866	105,213	6.6	137,276
Southern	2,428	7,066	2.9	3,265
Total	28,168	131,988	4.7	153,424

Annual Sportfishing Activity by Banff National Park Anglers

Anglers residing in Banff National Park did not fish in 1980 (see "The Regional Angling Population", this section).

Angler Success

An estimated 154,472 fish were caught in Banff National Park in 1980; 153,424 of these were caught by provincial resident anglers, and 1,048 by non-resident anglers (Table 65, Appendix). Sportfish caught in Banff National Park represented 1.5% of the resident angler catch, and 0.8% of the non-resident angler catch in 1980 (Tables 66 and 67, Appendix). None of the fish caught in Banff National Park were caught by anglers who resided in the park (Table 65, Appendix). Trout were caught most often; this species constituted 50.8% of the sportfish catch in Banff National Park in 1980 (Table 49).

Table 49

SPORTFISH CAUGHT IN BANFF NATIONAL PARK
IN 1980

SPECIES	FISH CAUGHT	
	(Number)	(% Total)
Pike	12,352	8.0
Perch	187	0.1
Walleye	806	0.5
Trout	78,452	50.8
Goldeye	619	0.4
Lake Whitefish	12,976	8.4
Mountain Whitefish	48,895	31.7
Arctic Grayling	185	0.1
Total	154,472	100.0

Regional Angler Household Expenditures

Angler households in Banff National Park made no expenditures related to sportfishing in 1980.

Regional Angler Household Boat Ownership and Use

Angler households in Banff National Park owned an estimated 162 canoes in 1980, which were used for 648 man-days of recreation. Recreational boat use did not include sportfishing (Table 69, Appendix).

SPORTFISHING PROFILE OF JASPER NATIONAL PARK, 1980

The Regional Angling Population

An estimated 503 licenced anglers resided in Jasper National Park in 1980; all of them actually fished, or were "active". Licenced Jasper Park anglers comprised 0.2% of the licenced provincial resident angling population in 1980.

Regional Sportfishing Activity

Sportfishing activity by an estimated 22,998 licenced anglers totalled 89,989 man-days in Jasper National Park in 1980, an average of 3.9 days/angler (Table 17). Angling in Jasper National Park represented 2.0% of all provincial angling in 1980.

Most (49.9%) of the resident angling can be attributed to anglers who lived in the Northeast region (Table 50; Table 63, Appendix). Resident and non-resident angling totalled 89,049 and 940 man-days respectively (Table 64, Appendix).

Table 50

SUMMARY OF SPORTFISHING ACTIVITY IN JASPER NATIONAL PARK BY LICENCED RESIDENT ANGLERS

RESIDENCE	NUMBER OF ANGLERS	MAN-DAYS OF ANGLING	AVERAGE DAYS/ANGLER	TOTAL FISH CAUGHT
Peace River	1,457	1,620	1.1	3,751
Northeast	12,141	44,446	3.7	69,236
Eastern Slopes	1,619	22,786	14.1	45,953
Central	5,504	17,797	3.2	24,702
Southern	1,781	2,238	1.3	2,462
Jasper	162	162	1.0	657
Total	22,664	89,049	3.9	146,761

Annual Sportfishing Activity by Jasper National Park Anglers

Provincial sportfishing by 503 anglers who resided in Jasper National Park in 1980 totalled 2,915 man-days (5.8 days/angler), approximately 0.1% of all resident angling (Table 63, Appendix). Summer seasonal sportfishing activity of anglers residing in Jasper National Park in 1980 is presented in Table 51; these anglers fished only in the summer season.

Table 51

SUMMARY OF SEASONAL SPORTFISHING ACTIVITY
BY ANGLERS RESIDING IN JASPER NATIONAL PARK

MONTH	MAN-DAYS OF ANGLING (Number)	(% Annual Total)
May	---	
June	486	
July	2,105	
August	162	
September	162	
Seasonal Total, Summer	2,915	100.0
Annual Total	2,915	100.0

Angler Success

An estimated 147,180 fish were caught in Jasper National Park in 1980; 146,761 of these were caught by provincial resident anglers, and 419 by non-resident anglers (Table 65, Appendix). Sportfish caught in Jasper National Park represented 1.4% of the resident angler catch, and 0.3% of the non-resident angler catch in 1980 (Tables 66 and 67, Appendix). Less than 1% of all fish caught in Jasper National Park were caught by anglers who resided in the park (Table 65, Appendix). Trout were caught most often; this species represented 33.6% of all sportfish caught in Jasper National Park in 1980 (Table 52).

Table 52

SPORTFISH CAUGHT IN JASPER NATIONAL PARK
IN 1980

SPECIES	FISH CAUGHT (Number)	(% Total)
Pike*	41,794	28.4
Perch*	12,079	8.2
Walleye*	3,940	2.7
Trout	49,447	33.6
Goldeye*	203	0.1
Lake Whitefish*	15,847	10.8
Mountain Whitefish	15,958	10.8
Arctic Grayling	7,912	5.4
Total	147,180	100.0

* Due to some misinterpretation by respondents, these species have been incorrectly reported as being caught in Jasper National Park. These fish must have been caught elsewhere, as they are not present in the waters of the park.

Regional Angler Household Expenditures

Angler households in Jasper National Park made no major purchases, but spent an estimated $98,186 on holiday costs associated with sportfishing in 1980, which represented an average expenditure of $195.20/licenced angler (Table 53). All of these costs were considered to be "dollars attributable to sportfishing" (Table 68, Appendix).

Regional Angler Household Boat Ownership and Use

Angler households in Jasper National Park owned an estimated 402 rowboats in 1980, and used these boats for 486 man-days of sportfishing (1.2 days/boat). These boats were not used for any other recreation (Table 69, Appendix).

Table 53
EXPENDITURES FOR SPORTFISHING
BY ANGLER HOUSEHOLDS IN
JASPER NATIONAL PARK

EXPENDITURE CATEGORY	DOLLARS SPENT
Fishing Holidays*	
(a) Fishing Package Value	$ 64,756
(b) Lodging	$ —
(c) Campsite fees	$ 324
(d) Food	$ 4,407
(e) Travel (in Alberta)	$ 5,666
(f) Boat Rentals	$ 1,295
(g) Fishing Supplies	$ 16,189
(h) Bait	$ 4,047
(i) Cost of Running Boat	—
(j) Guide Services	—
(k) Fishing Licences	$ 1,862
(l) Other Expenditures	—
Total Independent Fishing Holiday Expenses (sum of b to l)	$ 33,430
Total Cost of Fishing Holidays (sum of a to l)	$ 98,186
Average Cost/Angler**	$ 195

*Jasper Park anglers made no major purchases in 1980.

**Average expenditures and cost/angler are based on total number of licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

APPENDIX

Table 54

TOTAL NUMBER OF ALBERTA ANGLING LICENCES SOLD BETWEEN 1967-68 AND 1980-81

Year	Total Angling Licences Sold	% Change
Annual Increases:		
1967-68	136,693	—
1968-69	140,874	+3.0
1969-70	152,978	+8.6
1970-71	148,337	-3.0
1971-72	159,484	+7.5
1972-73	175,253	+9.9
1973-74	184,745	+5.4
1974-75	211,591	+14.5
1975-76	218,460	+3.2
1976-77	257,636	+17.9
1977-78	269,041	+4.4
1978-79	276,774	+2.9
1979-80	289,664	+4.7
1980-81	308,444	+6.5
5-Year Increases:		
1970-71	148,337	—
1975-76	218,460	+47.3
1980-81	308,444	+41.2

Table 55

AGE AND SEX OF RESIDENT AND NON-RESIDENT ANGLERS IN 1975 AND 1980

Resident Anglers

	1980				1975	
Age	Male	Female	Total	%	Total	%
Under 20	18,621	1,174	19,795	6.7%	8,756	4.2%
20-24	32,043	4,362	36,405	12.3%	27,519	13.2%
25-34	81,367	8,724	90,091	30.5%	61,918	29.7%
35-44	60,563	4,194	64,757	21.9%	51,285	24.6%
45-54	43,284	3,356	46,640	15.8%	33,773	16.2%
55-64	32,031	3,031	35,062	11.8%	24,183	11.6%
Over 64	2,853	168	3,021	1.0%	1,042	0.5%
Total	270,762	25,009	295,771	100.0%	208,476	100.0%

Non-Resident Anglers

	1980				1975	
Age	Male	Female	Total	%	Total	%
Under 20	201	61	262	2.1%	139	1.4%
20-24	968	207	1,175	9.3%	1,124	11.3%
25-34	3,471	94	3,565	28.1%	2,381	23.8%
35-44	2,210	141	2,351	18.5%	1,712	17.1%
45-54	1,636	132	1,768	14.0%	2,185	21.9%
55-64	2,388	150	2,538	20.0%	1,818	18.2%
Over 64	939	75	1,014	8.0%	625	6.3%
Total	11,813	860	12,673	100.0%	9,984	100.0%

	1980		1975	
Total Licenced Resident Anglers	295,771		208,476	
Male	270,762	(91.5%)	162,403	(77.9%)
Female	25,009	(8.5%)	46,073	(22.1%)
Total Licenced Non-Resident Anglers	12,673		9,984	
Male	11,813	(93.2%)	7,979	(79.9%)
Female	860	(6.8%)	2,005	(20.1%)

Table 56

AGE DISTRIBUTION OF LICENCED ANGLERS RESIDING IN EACH ADMINISTRATIVE REGION IN 1980

Age	Peace River	Jasper	Eastern Slopes	Banff	Athabasca	Northeast	Central	Southern	Total	(%)
Under 20	1,510	---	672	---	---	8,388	6,878	2,348	19,796	(6.7)
20 to 24	2,013	---	1,342	---	504	15,937	13,085	3,523	36,404	(12.3)
25 to 34	6,711	335	4,865	168	1,846	34,727	29,023	12,415	90,090	(30.4)
35 to 44	3,858	168	3,020	---	1,006	29,695	21,977	5,033	64,757	(21.9)
45 to 54	2,014	---	2,516	---	671	21,306	15,603	4,530	46,640	(15.8)
55 to 64	1,510	---	2,516	---	---	16,609	11,240	3,188	35,063	(11.9)
Over 64	504	---	---	---	---	1,846	671	---	3,021	(1.0)
Total	18,120	503	14,931	168	4,027	128,508	98,477	31,037	295,771	(100.0)
(%)	(6.1)	(0.2)	(5.0)	(0.1)	(1.4)	(43.4)	(33.3)	(10.5)	(100.0)	

Table 57

MAN-DAYS OF ANGLING BY ACTIVE RESIDENT AND NON-RESIDENT ANGLERS FOR EACH MONTH IN 1975 AND 1980

	1975		1980	
Month	Resident	Non-Resident	Resident	Non-Resident
January	50,943	177	153,899	288
Febraury	52,971	---	150,622	252
March	44,377	---	180,779	325
April	22,388	64	161,371	903
May	129,739	132	418,970	7,929
June	339,817	4,236	741,567	11,404
July	594,736	22,326	1,007,275	23,808
August	550,968	11,636	834,734	10,437
September	248,608	2,337	458,374	3,017
October	89,312	345	165,022	1,202
November	29,660	---	58,266	72
December	51,002	114	119,973	538
Total	2,204,521	41,367	4,450,852	60,175
Average Days/ Active Angler	11.8	4.4	17.7	5.3

*Active Anglers = 187,003 residents and 9,394 non-residents in 1975; 252,059 residents and 11,412 non-residents in 1980.

Table 58

NUMBER OF FISH OF EACH SPECIES CAUGHT AND
RETAINED BY ANGLERS IN 1975 AND 1980

Species	1975 Resident	1975 Non-Resident	1975 Total	1980 Resident	1980 Non-Resident	1980 Total
Pike	1,466,249	32,941	1,499,190	2,761,025	46,974	2,807,999
Perch	922,374	8,292	930,666	2,965,458	29,620	2,995,078
Walleye	332,777	9,605	342,382	878,498	12,919	891,417
Trout	1,343,775	18,166	1,361,941	2,216,040	26,479	2,242,519
Goldeye	62,799	845	63,644	185,928	2,565	188,493
Lake Whitefish	335,603*	611*	336,214*	463,586	2,295	465,881
Mountain Whitefish				796,593	2,013	798,606
Arctic Grayling	58,972	646	59,618	152,598	5,397	157,995
Other	35,375	1,567	36,942	21,855	2,652	24,507
TOTAL	4,557,924	72,673	4,630,597	10,441,581	130,914	10,572,495
Average Fish/ Active Angler	24.37	7.73	23.58	41.4	11.5	40.12
Catch/Man-Days Of Angling	2.067	1.756	2.061	2.345	2.175	2.343

*Species not distinguished in 1975 survey.

Table 59
ANGLER EXPENDITURES IN 1975 AND 1980

Type of Expenditure	1975 Resident	1975 Non-Resident	1975 Total	1980 Resident	1980 Non-Resident	1980 Total
Dollars Spent For Major Purchases	$ 70,106,205	$ 66,712	$ 70,172,917	$ 179,322,648	$ 735,659	$ 180,058,307
Average $/Angler*	$ 336.28	$ 6.68	$ 321.22	$ 606.28	$ 58.05	$ 583.76
Dollars Spent For Fishing Holiday Costs	$ 35,765,976	$ 1,681,240	$ 37,447,216	$ 60,416,309	$ 2,513,875	$ 62,570,184
Average $/Angler*	$ 171.56	$ 168.39	$ 171.41	$ 204.27	$ 169.96	$ 202.86
Total Expenditures	$ 105,872,181	$ 1,747,952	$ 107,620,133	$ 239,738,957	$ 2,889,534	$ 242,628,491
Number of Licenced Anglers	208,476	9,984	218,460	295,771	12,673	308,444
Average $/Angler*	$ 507.84	$ 175.08	$ 492.63	$ 810.56	$ 228.01	$ 786.62

* Average expenditures per angler are based on total number of licenced anglers, although it is likely that only active anglers incurred fishing holiday costs.

Table 60a

RESIDENT AND NON-RESIDENT EXPENDITURES
RELATED TO SPORTFISHING IN 1975 AND 1980

Types of Expenditures	Dollars Spent By Resident Anglers		Dollars Spent By Non-Resident Anglers	
Major Purchases	1975	1980	1975	1980
(a) Fishing Equipment (rods, reels, tackle, etc.)	$ 260,038	$ 7,043,900	$ 3,776	$ 75,474
(b) Boats, Motors, Trailers	$ 11,681,304	$ 64,830,796	$ 13,410	$ 62,718
(c) Camping Gear and Equipment	$ 33,352,349	$ 34,254,044	$ 2,663	$ 348,484
(d) Special Clothing	*	$ 502,542	*	$ 908
(e) Vehicles	$ 21,688,831	$ 63,436,147	$ 43,333	$ 225,596
(f) Cottages	$ 2,304,369	$ 8,040,508	—	—
(g) Repairs to Equipment	*	$ 540	*	—
(h) Other Purchases	$ 819,354	$ 1,214,171	$ 3,530	$ 22,479
Total Dollars Invested in Sportfishing**	*	$ 91,394,810 (50.97% of total dollars spent for purchases)	*	$ 562,325 (76.44% of total dollars spent for purchases
Total Expenditures for Major Purchases (sum of a to h)	$ 70,106,205 ($ 336.28/licenced angler)	$ 179,322,648 ($ 606.28/licenced angler)	$ 66,712 ($ 6.68/licenced angler)	$ 735,659 ($ 58.05/licenced angler)

* No category existed for this expenditure in the 1975 survey.

** The % of use for sportfishing of each major purchase translated into dollars invested.

Table 60b

RESIDENT AND NON-RESIDENT EXPENDITURES

RELATED TO SPORTFISHING IN 1975 AND 1980

Types of Expenditures	Dollars Spent By Resident Anglers		Dollars Spent By Non-Resident Anglers	
Fishing Holidays:	1975	1980	1975	1980
(a) Fishing Package Value	*	$ 480,002	*	$ 66,900
(b) Lodging		$ 2,159,398		$ 246,813
(c) Campsite fees	$ 13,671,682	$ 2,253,549	$ 735,613	$ 78,143
(d) Food		$ 16,872,903		$ 653,112
(e) Travel (in Alberta)	$ 13,641,652	$ 20,131,016	$ 515,632	$ 704,855
(f) Boat Rentals		$ 645,778		$ 33,231
(g) Guide Services	$ 2,958,884	$ 101,618	$ 144,671	$ 25,046
(h) Bait		$ 1,110,625		$ 20,723
(i) Fishing Supplies	$ 4,851,917	$ 10,086,738	$ 118,785	$ 144,071
(j) Cost of Running Boat	*	$ 4,097,718	*	$ 31,548
(k) Fishing Licences	*	$ 1,607,739	*	$ 78,082
(l) Other Expenditures	$ 641,841	$ 869,225	$ 166,809	$ 71,351
Total Independent Fishing Holiday Expenses (sum of b to l)	$ 35,765,976	$ 59,936,307	$ 1,681,240	$ 2,086,975
Total Cost of Fishing Holidays (sum of a to l)	$ 35,765,976 ($ 171.56/licenced angler)	$ 60,416,309 ($ 204.27/licenced angler)	$ 1,681,240 ($ 168.39/licenced angler)	$ 2,153,875 ($ 169.96/licenced angler)

* No category existed for this expenditure in the 1975 survey.

Table 61

NUMBER, TYPE AND VALUE OF BOATS OWNED
BY RESIDENT ANGLER HOUSEHOLDS IN 1980

Type Of Boat	Number of Angler Households: Owned 1 Boat	Owned 2 Boats	Owned 3 Boats	Number of Angler Households That Owned Each Type Of Boat	% Total Households*	Total Boats	Mean $ Value/Boat
Outboard	56,401	3,153	486	60,041	64.6%	64,165	$ 2,240
Canoe	23,857	1,166	405	25,429	27.4%	27,404	$ 508
Rowboat	11,806	297	81	12,184	13.1%	12,643	$ 680
Skiff or Other	3,243	23	—	3,266	3.5%	3,289	$ 796
Inboard - Outboard	2,739	—	—	2,739	2.9%	2,739	$ 8,257
Sailboat	2,051	—	—	2,051	2.2%	2,051	$ 1,935
Inboard	371	—	—	371	0.4%	371	$ 13,400
Houseboat	324	—	—	324	0.3%	324	$ 3,048

* Percentages are based on 92,941 anglers who indicated household boat ownership, who represent 31.4% of all 1980 licenced resident anglers.

Table 62

GEOGRAPHIC DISTRIBUTION
OF LICENCED NON-RESIDENT ANGLERS, 1975 AND 1980

Residence	Number of Anglers, 1975		Number of Anglers, 1980	
Canada				
Maritimes	28		211	
Quebec	114		—	
Ontario	1,196		1,334	
Manitoba/Saskatchewan	2,021		2,739	
British Columbia	2,363		3,266	
Territories	85		35	
Total Canadians	5,807	(58.1%)	7,585	(59.8%)
United States				
New England	37		43	
Mid-Atlantic Region	37		140	
East North Central Region	629		369	
West North Central Region	552		406	
Mountain Region	1,241		1,376	
Pacific Region	1,153		1,118	
South Atlantic Region	77		190	
East South Central Region	18		104	
West South Central Region	231		320	
Alaska	37		22	
Hawaii	—		40	
Total Americans	4,012	(40.2%)	4,128	(32.6%)
Other				
Mexico, Central America, South America, Caribbean	—		22	
United Kingdom	110		320	
Europe	55		596	
Australia, South Pacific	—		22	
Total Other	165	(1.7%)	960	(7.6%)
TOTAL NON-RESIDENT ANGLERS	9,984	(100.0%)	12,673	(100.0%)

FIGURE 2 GEOGRAPHIC REGIONS OF THE CONTINENTAL UNITED STATES

Table 63

ANGLING ACTIVITY IN EACH REGION

BY RESIDENTS OF EACH REGION IN 1980

MAN-DAYS OF ANGLING

Angler Residence	Peace River	Jasper	Eastern Slopes	Banff	Athabasca	Northeast	Central	Southern	Total	%
Peace River	223,336	1,620	19,296	1,802	7,278	10,191	7,576	3,783	274,882	6.2%
Jasper	---	162	2,753	---	---	---	---	---	2,915	0.1%
Eastern Slopes	26,670	22,786	191,247	5,828	1,767	17,486	10,717	41,719	318,220	7.1%
Athabasca	---	---	3,236	---	57,060	5,785	1,142	1,903	69,126	1.6%
Northeast	106,970	44,446	234,358	12,079	100,695	1,276,746	59,493	9,172	1,843,959	41.4%
Central	17,797	17,797	400,902	105,213	2,676	123,557	664,659	100,029	1,412,630	31.7%
Southern	1,488	2,238	51,773	7,066	2,607	10,784	30,078	423,086	529,120	11.9%
Total Man-Days Of Angling	376,261	89,049	903,565	131,988	172,083	1,444,549	753,665	579,692	4,450,852	
%	8.4%	2.0%	20.3%	3.0%	3.9%	32.5%	16.9%	13.0%		100.0%

Table 64

MAN-DAYS OF ANGLING IN EACH

ADMINISTRATIVE REGION OF ALBERTA IN 1980

Region	Number of Resident Anglers Who Fished Each Region	Resident Man-Days Of Angling	Number of Non-Resident Anglers Who Fished Each Region	Non-Resident Man-Days of Angling	Total Number Of Anglers Who Who Fished Each Region	Total Man-Days Of Angling
Northeast	119,147	1,444,549	3,359	18,149	122,506	1,462,698
Eastern Slopes	91,952	903,565	1,880	8,155	93,832	911,720
Central	73,011	753,665	1,970	8,376	74,981	762,041
Southern	48,243	579,692	1,455	8,081	49,698	587,773
Peace River	41,119	376,261	1,582	8,488	42,701	384,749
Athabasca	23,312	172,083	903	4,960	24,215	177,043
Banff	28,168	131,988	632	3,026	28,800	135,014
Jasper	22,664	89,049	334	940	22,998	89,989

Table 65

NUMBER OF FISH CAUGHT AND RETAINED IN EACH REGION

BY RESIDENT AND NON-RESIDENT ANGLERS IN 1980

Region	Fish Caught By Non-Resident Anglers	Fish Caught By Resident Anglers	Total Fish Caught	Fish Caught By Regional Resident Anglers	Fish Caught By Regional Anglers As % Of Total Fish Caught In Region
Peace River	20,350	861,676	882,026	370,382	42.0%
Eastern Slopes	15,856	1,853,275	1,869,131	268,864	14.4%
Athabasca	14,563	732,521	747,084	129,163	17.3%
Northeast	48,822	4,184,162	4,232,984	3,779,210	89.3%
Central	17,598	1,203,706	1,221,304	982,307	80.4%
Southern	9,606	1,097,866	1,107,472	662,862	59.9%
Banff	1,048	153,424	154,472	----	----
Jasper**	419	146,761	147,180	657	0.4%
TOTAL*	128,262	10,233,391	10,361,653	6,193,445	59.8%

* Totals do not include fish caught for which no region was specified.

** Due to misinterpretation by respondents, most of the fish reported to have been caught in Jasper National Park must have been caught elsewhere; only Trout, Mountain Whitefish and a few Arctic Grayling inhabit park waters (see Tables 66 and 67).

Table 66

NUMBER OF FISH CAUGHT IN EACH ADMINISTRATIVE REGION BY RESIDENT ANGLERS IN 1980

Region	Pike	Perch	Walleye	Trout	Goldeye	Lake Whitefish	Mountain Whitefish	Arctic Grayling	Other	Total	(%)
Peace River	337,772	168,686	185,283	83,630	915	12,929	40,294	32,167	---	861,676	(8.3)
Jasper**	41,775	12,079	3,940	49,047	203	15,847	15,958	7,912	---	146,761	(1.4)
Eastern Slopes	316,009	414,569	37,547	709,776	12,178	57,680	244,557	60,879	---	1,853,275	(17.7)
Athabasca	315,230	241,116	94,214	39,698	10,629	11,348	1,756	18,530	---	732,521	(7.0)
Northeast	1,346,575	1,821,450	480,576	193,051	60,551	257,546	14,217	10,196	---	4,184,162	(40.1)
Central	58,227	287,001	34,484	421,442	44,514	55,350	299,397	3,291*	---	1,203,706	(11.5)
Southern	333,005	20,370	41,648	455,290	56,319	40,277	131,519	19,438*	---	1,097,866	(10.5)
Banff	12,352	187	806	77,771	619	17,609	48,895	185	---	153,424	(1.5)
No Location Given	---	---	---	186,335	---	---	---	---	21,855	208,190	(2.0)
Total	2,761,025	2,965,458	878,498	2,216,040	185,928	463,586	796,593	152,598	21,855	10,441,581	(100.0)
(%)	(26.5)	(28.4)	(8.4)	(21.2)	(1.8)	(4.4)	(7.6)	(1.5)	(0.2)	(100.0)	

* Because Mountain Whitefish are commonly called "grayling" in southern Alberta, the Arctic Grayling reported to have been caught in the Southern and Central Administrative Regions, and Banff National Park are probably Mountain Whitefish. Most of the Arctic Grayling reportedly caught in Jasper National Park are also probably Mountain Whitefish.

** Due to misinterpretation by respondents, most of the fish reported to have been caught in Jasper National Park must have been caught elsewhere; only Trout, Mountain Whitefish and a few Arctic Grayling inhabit park waters.

Table 67

NUMBER OF FISH CAUGHT IN EACH ADMINISTRATIVE REGION BY NON-RESIDENT ANGLERS IN 1980

Region	Pike	Perch	Walleye	Trout	Goldeye	Lake Whitefish	Mountain Whitefish	Arctic Grayling	Other	Total	(%)
Peace River	7,821	2,130	3,749	3,704	1,301	195	340	1,110	---	20,350	(15.6)
Jasper**	19	---	---	400	---	---	---	---	---	419	(0.3)
Eastern Slopes	1,207	1,990	1,913	7,991	60	973	148	1,566	---	15,856	(12.1)
Athabasca	8,239	1,508	1,490	1,382	---	27	679	1,238	---	14,563	(11.1)
Northeast	23,243	17,896	3,838	1,324	570	516	118	1,317	---	48,822	(37.3)
Central	3,063	5,980	814	6,485	199	163	728	166*	---	17,598	(13.5)
Southern	3,382	116	1,115	4,512	427	54	---	---	---	9,606	(7.3)
Banff	---	---	---	681	---	367	---	---	---	1,048	(0.8)
No Location Given	---	---	---	---	---	---	---	---	2,652	2,652	(2.0)
Total	46,974	29,620	12,919	26,479	2,565	2,295	2,013	5,397	2,652	130,914	(100.0)
(%)	(35.9)	(22.6)	(9.9)	(20.7)	(2.0)	(1.8)	(1.5)	(4.1)	(2.0)	(100.0)	

* Because Mountain Whitefish are commonly called "grayling" in southern Alberta, the Arctic Grayling reported to have been caught in the Central Administrative Region are probably Mountain Whitefish.

** Due to misinterpretation by respondents, Pike reported to have been caught in Jasper National Park must have been caught elsewhere, as they do not inhabit park waters.

Table 68

COMPARISON OF EXPENDITURES FOR SPORTFISHING BY
ANGLER HOUSEHOLDS IN EACH REGION IN 1980*

Expenditure Category	Northeast	Central	Southern	Peace River	Eastern Slopes	Athabasca	Jasper	Total
(a) Dollars Spent For Major Purchases	$ 96,214,349	$ 48,821,594	$ 14,465,390	$ 9,594,355	$ 6,025,929	$ 4,201,031	---	$ 179,322,648
Dollars Invested in Sportfishing	$ 45,622,427	$ 23,957,706	$ 9,219,989	$ 6,890,111	$ 3,666,390	$ 2,038,187	---	$ 91,394,810
% of Major Purchase	47.4%	49.1%	63.7%	71.8%	60.8%	48.5%	---	51.0%
(b) Dollars Spent For Sportfishing Holiday	$ 27,541,868	$ 19,331,134	$ 6,797,342	$ 2,816,008	$ 2,341,786	$ 1,489,985	$ 98,186	$ 60,416,309
Total Expenditures	$ 123,756,217	$ 68,152,728	$ 21,262,732	$ 12,410,363	$ 8,367,715	$ 5,691,016	$ 98,186	$ 239,738,957
Dollars Attributable to Sportfishing	$ 73,164,295	$ 43,288,840	$ 16,017,331	$ 9,706,119	$ 6,008,176	$ 3,528,172	$ 98,186	$ 151,811,119
% of Total Expenditures	59.1%	63.5%	75.3%	78.2%	71.8%	62.0%	100.0%	63.3%

* Banff anglers made no expenditures.

Table 69

BOAT OWNERSHIP AND USE FOR SPORTFISHING BY ANGLER HOUSEHOLDS

IN EACH REGION IN 1980

Type Of Boat	Peace River	Jasper	Eastern Slopes	Banff	Athabasca	Northeast	Central	Southern	Total Boats Owned Total Sportfishing Days	Sportfishing Days/Boat
Outboard										
Number Owned	4,236	---	3,075	---	809	33,657	18,156	4,232	64,165	9.7
Fishing Days	38,199	---	23,798	---	20,074	344,371	139,465	59,633	625,540	
Canoe										
Number Owned	2,509	---	1,322	162	405	11,607	9,460	1,939	27,404	5.8
Fishing Days	34,563	---	7,285	---	809	49,970	57,363	9,135	159,125	
Rowboat										
Number Owned	483	402	563	---	161	7,999	2,359	676	12,643	7.0
Fishing Days	243	486	2,266	---	648	68,452	15,245	874	88,214	
Skiff or Other										
Number Owned	---	---	81	---	---	1,853	1,093	262	3,289	5.5
Fishing Days	---	---	---	---	---	13,275	3,497	1,249	18,021	
Inboard-Outboard										
Number Owned	81	---	162	---	---	1,498	782	216	2,739	9.3
Fishing Days	3,804	---	809	---	---	13,477	6,934	324	25,348	
Sailboat										
Number Owned	162	---	---	---	---	1,106	783	---	2,051	1.1
Fishing Days	324	---	---	---	---	809	1,079	---	1,212	
Inboard										
Number Owned	20	---	---	---	---	135	162	54	371	12.8
Fishing Days	121	---	---	---	---	4,236	405	---	4,762	
Houseboat										
Number Owned	---	---	---	---	---	243	81	---	324	---
Fishing Days	---	---	---	---	---	---	---	---	---	
Total Boats Owned	7,491	402	5,203	162	1,375	58,098	32,676	7,379	112,986	8.2
Total Fishing Days	77,254	486	34,158	---	21,531	494,590	223,988	71,215	923,222	
Sportfishing Days/Boat	10.3	1.2	6.6	---	15.7	8.5	6.8	9.7	8.2	